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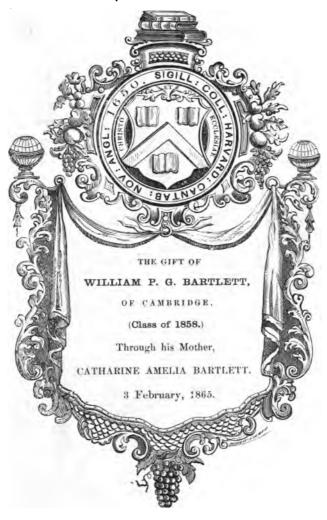
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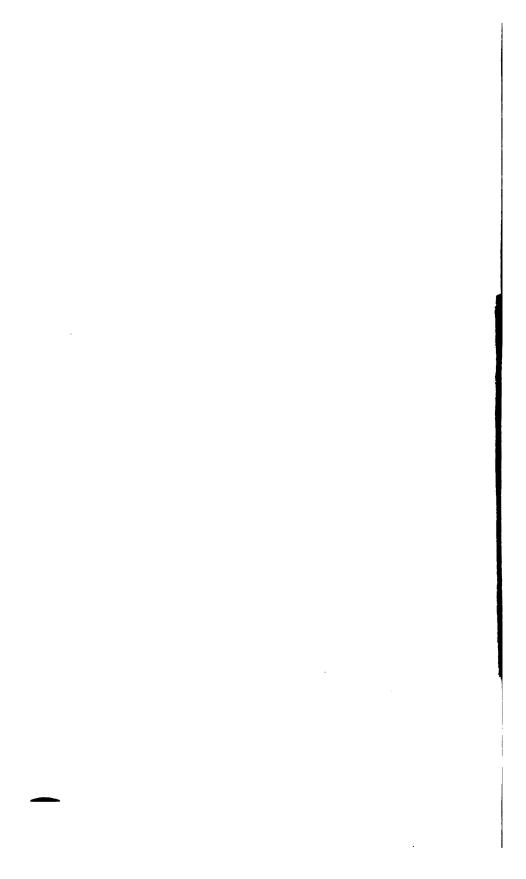
# Math 838, 42



TRANSFERRED TO



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# MATHEMATICAL TABLES;

COMPRISING

## LOGARITHMS OF NUMBERS,

LOGARITHMIC SINES, TANGENTS, AND SECANTS,

NATURAL SINES, MERIDIONAL PARTS,

DIFFERENCE OF LATITUDE AND DEPARTURE,

ASTRONOMICAL REFRACTIONS, &c.

Solomon P. Milie and J. Sherwin

THIRD STEREOTYPE EDITION.

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# Math 838,42

1865, Feb.3.

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Nom. P. G. Bartiett.

(36. G. 1858.)

Through his election,

Galicine et. Bartiett.

Printed by I. R. Butts,

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### ADVERTISEMENT.

THE Tables, comprised in this volume, have been very carefully compared with the best English and French Tables; and they will be found, it is believed, not inferior, in point of correctness, to any similar Tables in use.

Prefixed is a short introduction, explanatory chiefly of the methods of using them.

For information respecting the theory and construction of logarithms, the student is referred to Lacroix's Algebra, (Cambridge translation,) to Smyth's Algebra, and to the more extended English and French treatises.

s. p. MILES, T. SHERWIN.

Bostow, January, 1836.

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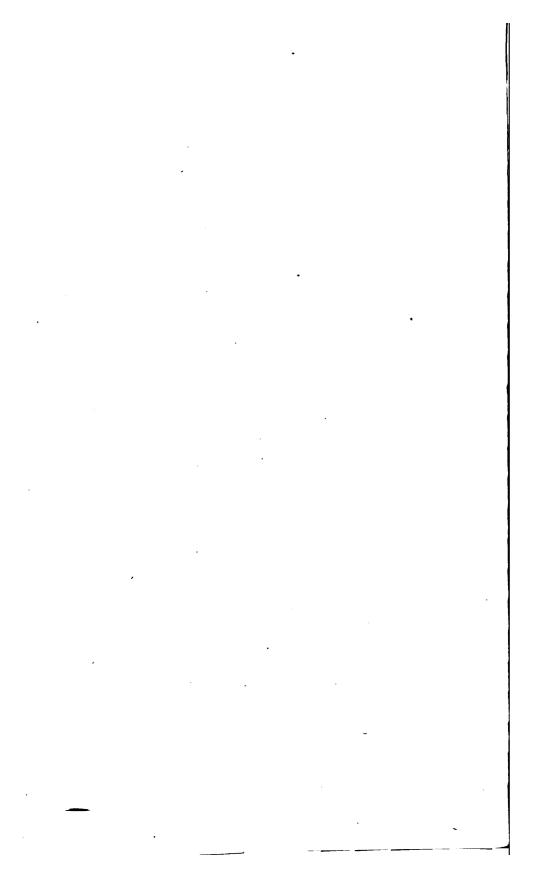
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#### INTRODUCTION.

#### OF LOGARITHMS.

THE LOGARITHMS of numbers are the exponents of the different powers to which a constant number must be raised, in order to be equal to those numbers; the principles, therefore, which apply to exponents in general, apply to logarithms. Hence, to multiply numbers, add their logarithms; to divide, subtract the logarithm of the divisor from that of the dividend; to raise a number to any power, multiply its logarithm by the exponent of that power; and, to extract the root of a number to any degree, divide its logarithm by the number which denotes the degree of that root.

The constant number upon which the tables in common use are constructed, and which is called the base of the tables, is 10. The logarithm of 1 or 10°, is 0; that of 10 or 10¹, is 1; that of 100 or 10³, 2; that of 1000 or 10³, 3, &c.; also, the logarithm of .1 or 10<sup>-1</sup>, is —1; that of .01 or 10<sup>-2</sup>, —2; that of .001 or 10<sup>-3</sup>, —3, &c.: hence, the logarithms of the intermediate numbers, will consist of whole numbers and fractions, or of fractions only, if the number be greater than 1 and less than 10.

The whole number is called the *characteristic* or *index* of the logarithm; and, if positive, is always less by one than the number of places of integers in the corresponding number; but if negative, it is equal to the number of places by which the first significant figure of its corresponding decimal is removed from the place of units; or, universally, the characteristic of a logarithm marks the place of the first significant figure of its corresponding number from the place of units. It is evident, moreover, that, as the logarithms of numbers, which are tenfold, the one of the other, do not differ except in their characteristics, it is sufficient that the tables contain the fractional parts only of the logarithms. There is, indeed, a decided advantage in excluding the characteristic; since, for example, the logarithm of 20, which equals 1. 3010300, (the fractional parts of the logarithms being always expressed in the tables by decimals,) becomes, by increasing its characteristic successively by 1, that of 200, 2000, 20000, &c.; or by diminishing its characteristic in a similar manner, that of 2, .2, .02, .002, &c.

#### To FIND THE LOGARITHM OF A NUMBER.

- 1. If the given number be entire, and less than 100, find it in one of the columns, marked No. in the small table of the logarithms of numbers, and directly on the right will be found its logarithm; thus, the logarithm of 67 is 1.8260748.
- 2. If the number consist of three figures, whether entire, mixed, or decimal, find these figures in the first column of the larger table, and in the next column on the right will be found the decimal part of its logarithm, to which prefix the proper characteristic. If the number consist of four

figures, find the first three in the first column, and the fourth at the top, and the corresponding logarithm, with the exception of the characteristic, will be found on a line with the first three, and directly below the last. Thus, the logarithm of 4783 is 3.6797004. That of 5159 is 3.7125655.

3. If the given number contain five or more places, its logarithm may be found in the following manner. Suppose the logarithm of 698262 be required. First, find the logarithm of 698200 = 5.8439798, which does not differ from that of 6982, except in the characteristic; then find the logarithm of 698300 = 5.8440420. The former is evidently less, and the latter greater, than the logarithm of 698262. The difference of the numbers 698200 and 698300, is 100, and the difference of their logarithms, found in the column marked Dif. is .0000622; the difference of the numbers 698200 and 698262, is 62: wherefore, if for an increase of the number by 100, the logarithm increase by .0000622, for an increase of the number by 62, the logarithm ought to be increased by  $\frac{630}{1000}$  of .0000622 = .0000386; this, added to the logarithm of 698200, gives 5.8440184, the logarithm required.\* In like manner, the logarithm of 8734683 is that of 8734000, increased by  $\frac{630}{1000}$  of the difference between the logarithms of 8734000 and 8735000.

This process of finding the logarithms of large numbers supposes that they increase in the same ratio as their numbers, which is not strictly true, though sufficiently near the truth for general practice. It may be remarked, however, that these ratios approach that of equality, the larger the num-

bers, and the less they differ from each other.

4. If the given number be a fraction, since a fraction represents the division of the numerator by the denominator, its logarithm will be found by subtracting the logarithm of the denominator from that of the numerator. But the logarithm of 1 being 0, that of a fraction less than unity, will be negative. Thus, the logarithm of  $\frac{2}{3} = 0.3010300 - 0.4771213 = -0.1760913$ : or the characteristic only may be made negative by adding to the logarithm of the numerator -1+1, -2+2, &c. (which does not alter its value,) and then subtracting from the positive part the logarithm of the denominator. By this method, the logarithm of  $\frac{2}{3} = -1+1.3010300 - 0.4771213 = -1.+8239087$ ; or, as it is usually written,  $\overline{1}.8239087$ , the sign — being placed over the characteristic; and this expression reduced, will be the same as that first obtained.

But the logarithm of a fraction is susceptible of a different and more convenient form. If to the logarithm 1.8239087 we add 10, (or, which amounts to the same thing, add 10 to that of the numerator, previously to subtraction,) it becomes 9.8239087. Now this form is perfectly convenient for use, and will produce no confusion, if we recollect that this logarithm is too great by 10.

To apply this method to decimal fractions, observe, for example, that the logarithm of  $.2 = \overline{1.3010300}$ ; that of  $.02 = \overline{2.3010300}$ ; that of  $.002 = \overline{3.3010300}$ , &c.; then, increasing the characteristics, each by

<sup>\*</sup> As the differences in the column of differences do not always correspond exactly to those of all the successive logarithms in the line against which they are placed; when great accuracy is required, it may be necessary, particularly in the first part of the table, to take the actual difference between the two successive tabular logarithms.

10, we have the logarithm of .2 = 9.3010300; that of .02 = 8.3010300; that of .002 = 7.3010300. Hence, the logarithm of a decimal fraction does not differ from that of a whole number consisting of the same figures, except in its characteristic, which, in this form, is always 10, wanting as many units as are equal to the number of places by which the first significant figure of the decimal is removed from the decimal point. But it must be recollected that these logarithms are each too great by 10; and, consequently that in those operations in which they may have been used, if the resulting logarithm contain tens, these tens must be discarded. Suppose, for example, it were required to raise .2 to the second power. The logarithm of .2 = 9.3010300; this multiplied by 2 gives 18.6020600; from which if 10 be subtracted, we have 8.6020600, the logarithm of .04.

5. Having a logarithm, to find its corresponding number. Look in the table for the decimal part of the logarithm, and against it in the column marked No. will be found the first three, and, directly above it in the upper space, the fourth figure, of the number required, the order of units being determined by the characteristic. Suppose the given logarithm 3.3332457; the corresponding number is 2154. Had the characteristic been 5, the number would have been 215400. Had it been 2, or 8, (10 having been added,) the number would have been 0.02154.

6. If the decimal part of the logarithm be not found exactly in the table, the method of obtaining the number will be the reverse of that in Art. 3.

Suppose the given logarithm is 5.7343003; the next less logarithm, corresponding to the number 542300, is 5.7342396; the next greater logarithm, corresponding to the number 542400, is 5.7343197. The difference of these logarithms is .0000801, and the difference of their corresponding numbers 100; the difference between the less logarithm and that given, is .0000607; wherefore §87 of 100 = 75.78 is to be added to 542300, which gives 542375.78, the number required.

7. If a logarithm be wholly negative, or with a negative characteristic only, its corresponding number is a fraction; 10 therefore is to be added, then the difference between the positive and negative parts taken, and the remainder is the logarithm of the number required.

Suppose the given logarithm -0.8440570. Add 10 and reduce, and

the log. becomes 9.1559430, the number corresponding to which is .1432.

8. Arithmetical Complement. Suppose it were required to divide 75 by 15; the result would evidently be the same if 75 were multiplied by  $\frac{1}{15}$ ; instead, therefore, of subtracting the logarithm of 15 from that of 75, we may add to the latter the logarithm of  $\frac{1}{15}$ . The logarithm of  $\frac{1}{15} = \log$ . of 1—log. of 15; but the logarithm of 1, being 0, may be expressed by -1+1, -2+2, &c. or, as is usually done for the sake of uniformity, by -10+10; and in the operation, the -10, provided we subtract 10 afterwards, may be omitted. This logarithm is called the arithmetical complement of the logarithm of 15. The arithmetical complement of the logarithm of a number is therefore found by subtracting the logarithm of that number from 10.

The logarithm of 15 = 1.1760913, which subtracted from 10, leaves

8.9239087, the arithmetical complement of the logarithm of 15; this added to the logarithm of 75 == 1.9750613, gives 10.6989700; subtract 10, and the remainder is 0.6989700, the logarithm of 5. It will readily be perceived from the foregoing example, that when a question involves several multiplications and divisions, the whole may be performed by the addition of logarithms.

#### TABLE OF LOGARITHMIC SINES, &c.

This table contains the logarithms of those numbers which express the values of the sines, tangents, &c., to degrees and minutes, radius being considered 10 000 000 000, the logarithm of which is 10.

It may readily be adapted to the radius equal to unity, by subtracting 10 from each characteristic. By this change, the logarithms obtain the same values that they have in the systems of trigonometry, in which the sines, &c. are defined to be the ratios between the sides of a right-angled triangle. It is advisable, however, even in this case, to allow the logarithms to remain as they are when the characteristics are less than 10, for the reasons already given in regard to the logarithms of fractions.

It is to be observed that any angle and its supplement, or what it wants of 180°, have the same sine, tangent, &c., and that the sine, tangent, and secant of any angle are the same respectively as the cosine, cotangent, and cosecant of its complement, or what it wants of 90°. Thus the sine of 24° = sine of 156° = cosine of 66° = cosine of 114°.

1. To obtain the logarithmic sine, tangent, &c. of an arc or angle containing degrees and minutes. If the number of degrees be less than 45 or greater than 135, find the degrees and name, sine, cosine, &c., at the top of the page, and the minutes in the column of minutes directly below the degrees; but if the number of degrees be greater than 45 and less than 135, find the degrees and name at the bottom, and the minutes in the column of minutes directly above the degrees; then on a line with the minutes, and below or above the name, as the case may be, will be found the logarithmic sine, cosine, &c., required. For example, the sine of 25° 33' = 9.6347780; the tangent of 146° 35' = 9.8194096.

2. If the given angle contain degrees, minutes, and seconds, take fractional parts of the difference, found in the column of differences, as was done in finding the logarithms of large numbers, and add these fractional parts to the logarithmic sine, &c., corresponding to the degrees and minutes only, or subtract them from it; adding when the logarithmic sines, &c., increase as the angles increase, and subtracting when they diminish as the angles increase. To find, for example, the sine of 15° 12′ 13″. The logarithmic sine of 15° 12′ = 9.4186148. To this add  $\frac{1}{6}$ 8 of .0004647 = .0001007, which gives 9.4187155, the sine of the angle required.

To obtain the cosine of 31° 16′ 12″. The cosine of 31° 16′ = 9.9318447. From this subtract  $\frac{12}{66} = \frac{1}{5}$  of .0000768, which gives 9.9318293, the cosine required.

3. To obtain the degrees, minutes, and seconds, corresponding to any given logarithmic sine, cosine, &c. If the logarithmic sine, &c. be found exactly in the table, the degrees will be seen at the top or the bottom,

according as the denomination sine, &c., is found at the top or the bottom, and the minutes in the column of minutes, directly below or above the degrees, and on a line with the given sine, &c. Thus, let the log. sine be 9.8345948; the corresponding angle will be 43° 6′, or its supplement 136° 54′.

If the logarithmic sine, &c., be not contained exactly in the table, find the next greater and the next less, and observe the difference between them in the column of differences; then take the difference between the given logarithmic sine, &c., and that which corresponds to the less number of degrees and minutes; make the former of these differences the denominator, and the latter the numerator of a fraction; this fraction will express the part of 1' or 60", which is to be added to the less number of degrees and minutes. Given the logarithmic sine = 9.4593734. The next less, corresponding to 16° 44' is 9.4592684; the next greater, corresponding to 16° 45', is 9.4596884; their difference, .0004200. The difference between the given sine and that of 16° 44', is .0001050; consequently  $\frac{1258}{1258} = \frac{1}{4}$  of  $\frac{60}{125} = \frac{1}{4}$ , added to  $\frac{16}{125} = \frac{1}{4}$ , gives  $\frac{16}{125} = \frac{1}{4}$ , the angle required.

On the first page of the tables will be found a table of logarithmic sines, &c., to the points and quarter points of the compass, the use of which is in all respects the same as that of the table just described.

#### TABLE OF NATURAL SINES.

This table contains the numerical values of the sines and cosines to every degree and minute of the quadrant, expressed in decimals, radius being considered equal to unity. It is evident that these values may be adapted to any other radius. For instance, if radius be supposed equal to 10 000 000, these values will be integers. The method of finding the sine or cosine corresponding to any given number of degrees, minutes, and seconds, and the reverse, in this table, is similar to that given for finding logarithmic sines, &c., except that if the angle exceed 90°, we first find its supplement, and then the sine or cosine of this supplement.

It is to be observed, however, that if the denomination and degrees are found at the top of the page, the minutes must be sought in the column on

the left; if at the bottom, in the column on the right.

Example 1. Sine of  $19^{\circ} 25' = .3324355$ .

" 2. Sine of 159°  $30 = \sin 20^\circ 30 = .3502074$ .

## Table of Difference of Latitude and Departure, or Traverse Table.

This table contains the difference of latitude and departure, to points, quarter points, and degrees of the quadrant; and though concise, furnishes results equally accurate with those obtained from more extended tables.

The distances, from 1 to 10, will be seen at the top and bottom of the table, and, when necessary, they may be considered as tens, hundreds, thousands, &c.; in which case the corresponding difference of latitude and departure are to be increased in the same ratio. Moreover, if the

2

course be found on the left, the denominations, Lat. and Dep., are to be sought at the top of the page; if on the right, they are to be sought at the bottom; then, on a line with the course, and directly below or above the distance, will be found the corresponding difference of latitude and departure.

Examples. 1. Let the course be 34°, and distance 9; the correspond-

ing dif. lat. is 7.4613, and dep. 5.0327.

2. Let the given distance be 3256, and course 31°.

The	dif.	lat.	for	3000 == 9	2571.5	Dep.	1545.1
66	"	"	66	<b>200</b> ==	171.43	"	103.01
66	"	"	"	50 <b>=</b>	42.858	66	25.752
"	"	66	"	6 ==	5.1430	"	3.0902

Dif. lat. required, 2790.9310. Dep. 1676.9522.

It is to be observed that when the given distance, as in the last example, consists of units of different orders, the difference of latitude, or departure required, is the sum of the differences of latitude, or departures, corresponding to the several parts of this distance.

#### TABLE OF MERIDIONAL PARTS.

This table contains, in geographical miles, the values of meridional arcs, to degrees and minutes, according to the principles of Mercator's chart. The method of using it will be sufficiently illustrated by the following examples.

1. Required the meridional parts for 12° 15′. Look for the degrees at the top or bottom of the page, and the minutes in the column on the right or left, and below or above the former, and opposite the latter, will be found 741, the meridional parts required.

2. Required the meridional difference of latitude between Washington,

in latitude 38° 53′ N., and Boston, in latitude 42° 23′ N.

Latitude of Boston 42° 23'. Meridional parts 2813 Latitude of Washington 38°, 53'. Meridional parts 2536

Meridional difference of latitude 277.

3. Required the meridional difference of latitude between New York, in latitude 40° 42′ N., and Buenos Ayres, in latitude 34° 37′ S.

Latitude of New York, 40° 42′ N. Meridional parts 2678

Latitude of Buenos Ayres, 34° 37′ S. Meridional parts 2216

Meridional difference of latitude 4894.

It is to be observed that when the two places are on the same side of the equator, the meridional difference of latitude is equal to the difference of the meridional parts corresponding to the latitudes; but, when the places are on opposite sides of the equator, that it is equal to the sum of these parts.

## Table of Mean Astronomical Refractions, and the Sun's Parallax.

This table contains refractions for every degree of altitude or zenith distance, when the barometer is at 30 inches, and Fahrenheit's thermometer at  $55^{\circ}$ , or when the barometer is at 29.6, and thermometer at  $50^{\circ}$ ; with the corresponding variations for  $\frac{9}{10}$  of an inch in the barometer, and 20 degrees of the thermometer. Its use will be readily understood from an example, if it be recollected that refraction is increased by cold and greater density, and diminished by heat and greater rarity.

Let the refraction be required for the apparent altitude  $50^{\circ}$ , when the barometer is at 30.2 inches, and the thermometer at  $60^{\circ}$ . The mean refraction for the altitude  $50^{\circ}$  is 0' 48.1''; the variation for  $\frac{9}{10}$  inch of the barometer, is 1.4'',  $\frac{2}{3}$  of which is 0.3''; this, as the barometer is above 30 inches, is to be added to the mean refraction; the variation for  $20^{\circ}$  of the thermometer is 2.2''; for  $5^{\circ}$ , therefore, it is 0.55'', which, as the thermometer is higher than  $55^{\circ}$ , is to be subtracted; consequently, 0' 48.1'' + 0.3'' - 0.55'' = 0' 47.85'', the refraction required.

Connected with the table above described, will be seen the sun's parallax; and on the first page of the tables, a table of the miles and parts of a mile in a degree of longitude, at every degree of latitude; the use of these will be sufficiently manifest without explanation.

# LOGARITHMIC SINES, &c. TO EVERY POINT AND QUARTER POINT OF THE COMPASS.

Points	Sine.	Co-sine.	Tangent.	Co-tangent.	Secant.	Co-secant.	Points
0 250	Inf. Neg.	10.0000000	Inf. Neg.	Infinite.	10.0000000	Infinite.	8
	8.6907955	9.9994766	8.6913189	11.3086811	10.0005234	11.3092045	74
	8.9913020	9.9979037	8.9933983	11.0066017	10.0020963	11.0086980	74
	9.1665203	9.9952738	9.1712465	10.8287535	10.0047262	10.8334797	74
1 14 15 14	9.2902357 9.3855708 9.4628241 9.5274879	9.9915739 9.9867857 9.9808849 9.9738407	9.2986618 9.3987851 9.4819393 9.5536473	10.7013382 10.6012149 10.5180607 10.4463527	10.0084261 10.0132143 10.0191151 10.0261593	10.7097643 10.6144292 -10.5371759 10.4725121	7 64 64
2 2 2 2 2	9.5828397 9.6309921 9.6733866 9.7110499	9.9656153 9.9561633 9.9454298 9.9333499	9.6172243 9.6748288 9.7279568 9.7777000	10.3827757 10.3251712 10.2720432 10.2223000	10.0343847 10.0438367 10.0545702 10.0666501	10.4171603 10.3690079 10.3266134 10.2889501	6 5 5 5 5
3 33 33	9.7447390	9.9198464	9.8248926	10.1751074	10.0801536	10.2552610	5
	9.7750271	9.9048278	9.8701993	10.1298007	10.0951722	10.2249729	44
	9.8023586	9.8881854	9.9141732	10.0858268	10.1118146	10.1976414	44
	9.8270841	9.8697896	9.9572946	10.0427054	10.1302104	10.1729159	44
4	9.8494850	9.8494850	10.0000000	10.0000000	10.1505150	10.1505150	4
Points	Co-sine.	Sine.	Co-tangent.	Tangent.	Co-secant.	Secant.	Points

# THE MILES AND PARTS OF A MILE IN A DEGREE OF LONGITUDE AT EVERY DEGREE OF LATITUDE.

D.L.	Miles.	D.L.	Miles.	D.L.	Miles.	D.L.	Miles.	D.L.	Miles.	D.L.	Miles.	D.L.	Miles.
1	59.99	14	58.22	27	53.46	40	45.96	53	36.11	66	24.40	79	11.45
3	59.96 59.92	15 16	<i>5</i> 7.95 <i>5</i> 7.68	28 29	52.98 52.48	41 42	45.28 44.59	54 55	35.27 34.41	67 68	23.44 22.48	80 81	10.42 9.39
4.5	59.85 59.77	17 18	57.38 57.06	30 31	51.96 51.43	43 44	43.88 43.16	56 57	33.55 32.68	69 70	21.50. 20.52	82 83	8.35 7.31
6	59.67 59.55	19 20	56.73 56.38	32 33	50.88 50.32	45 46	42.43 41.68	58 59	31.80 30.90	71 72	19.53 18.54	84 85	6.27 5.23
8	59.42	21	56.01	34	49.74	47	40.92	60	30.00	73	17.54	86	4.19
9	59.26 59.09	22 23	55.63 55.23	35 36	49.15 48.54	48 49	40.15 39.36	61 62	29.09 28.17	74 75	16.54 15.53	87 88	3.14 2.09
11	58.90	24	54.81	37	47.92	50	38.57	63	27.24	76	14.52	89	1.05
12 13	58.69 58.46	25 26	54.38 53.93	38 39	47.28 46.63	51 52	37.76 36.94	64 65	26.30 25.36	77 78	13.50 12.47	90	0.00

#### LOGARITHMS OF NUMBERS, FROM 1 TO 100.

No.	Log.								
1	0.0000000	21	1.3222193	41	1.6127839	61	1.7853298	81	1.9084850
2	0.3010300	22	1.3424227	4.2	1.6232493	62	1.7923917	82	1.9138139
3	0.4771213	23	1.3617278	43	1.6334685	63	1.7993405	83	1.9190781
4	0.6020600	24	1.3802112	44	1.6434527	64	1.8061800	84	1.9242793
5	0.6989700	25	1.3979400	45	1.6532125	65	1.8129134	85	1.9294189
6	0.7781513	26	1.4149733	46	1.6627578	66	1.8195439	86	1.9344985
7	0.8450980	27	1.4313638	47	1.6720979	67	1.8260748	87	1.9395193
8	0.9030900	28	1.4471580	48.	1.6812412	68	1.8325089	88	1.9444827
9	0.9542425	29	1.4623980	49	1.6901961	69	1.8388491	89	1.9493900
10	1.0000000	30	1.4771213	50	1.6989700	70	1.8450980	90	1.9542425
11	1.0413927	31	1.4913617	51	1.7075702	71	1.8512583	91	1.9590414
12	1.0791812	32	1.5051500	b2	1.7160033	72	1.8573325	92	1.9637878
13	1.1139434	53	1.5185139	53	1.7242759	73	1.8633229	93	1.9684829
14	1.1461280	34	1.5314789	54	1.7323938	74	1.8692317	94	1.9731279
15	1.1760913	35	1.5440680	55	1.7403627	75	1.8750613	95	1.9777236
16	1.2041200	36	1.5563025	56	1.7481880	76	1.8808136	96	1.9822712
17	1.2304489	37	1.5682017	57	1.7558749	77	1.8864907	97	1.9867717
18	1.2552725	38	1.5797836	58	1.7634280	78	1.8920946	98	1.9912261
-19	1.2787536	39	1.5910646	59	1.7708520	79	1.8976271	99	1.9956352
20	1.3010300	40	1.6020600	60	1.7781513	80	1.9030900	100	2.0000000

## LOGARITHMS OF NUMBERS, FROM 1 TO 10,000.

No.		•			4		Α.	PY		ا م	Dif.
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102	0086002	0090257	0094509	0098756	0103000	0107239	0111474	0115704	0119931	0124154	4239
103	0128372	0132587	0136797	0141003	0145205	0149403	0153598	0157788	0161974	0166155	4198
104 105	0170333	0174507 0216027	0178677 0220157	0182843 0224284	0187005 0228406	0191163 0232525	0195317 0236639	0199467 0240750	0203613 0244857	0207755 0248960	4158
106	0211893 0253059	0257154	0261245	0265333	0269416	0273496	0230039	0281644	0285713	0289777	4080
107	0293838	0297895	0301948	0305997	0310043	0314085	0318123	0322157	0326188	0330214	4042
108	0334238	0338257	0342273	0346285	0350293	0354297	0358298	0362295	0366289	0370279	4004
109	0374265	0378248	0382226	0386202	0390173	0394141	0398106	0402066	0406023	0409977	3968
110	0413927	0417873	0421816	0425755	0429691	0433623	0437551	0441476	0445398	0449315	3932
111 112	0453230	0457141	0461048 0499929	0464952 0503798	0468852 0507663	0472749	0476642	0480532	0484418 0523091	0488301 0526939	3897 3862
113	0492180 0530784	0496056 0534626	0538464	0542299	0546131	0511525 0549959	0515384 0553783	0519239 0557605	0561423	0565237	3828
114	0569049	0572856	0576661	0580462	0584260	0588055	0591846	0595634	0599419	0603200	3795
115	0606978	0610753	0614525	0618293	0622058	0625820	0629578	0633334	0637086	0640834	3762
116 117	0644580 0681859	0648322 0685569	0652061 0689276	0655797 0692980	0659530 0696681	0663259 0700379	0666986 0704073	0670709 0707765	0674428 0711453	0678145 0715138	3729 3698
118	0718820	0722499	0726175	0729847	0733517	0737184	0740847	0744507	0748164	0751819	3667
119	0755470	0759118	0762763	0766404	0770043	0773679	0777312	0780942	0784568	0788192	3636
120	0791812	0795430	0799045	0802656	0806265	0809870	0813473	0817073	0820669	0824263	3605
121	0827854	0831441	0835026	0838608	0842187	0845763	0849336	0852906	0856473	0860037	3576
122 123	0863598	0867157	0870712	0874265 0909631	0877814	0881361	0884905	0888446	0891984	0895519	3547
123	0899051 0934217	0902581 0937718	0906107 0941216	0909631	0913152 0948204	0916670 0951694	0920185 0955180	0923697 0958665	0927206 0962146	0930713 0965624	3518 3490
125	0969100	0972573	0976043	0979511	0982975	0986437	0989896	0993353	0996806	1000257	3462
126	1003705	1007151	1010594	1014034	1017471	1020905	1024337	1027766	1031193	1034616	3434
127   128	1038037	1041456	1044871	1048284 1082267	1051694	1055102	1058507	1061909	1065309	1068705	3408
120	1072100 1105897	1075491 1109262	1078880 1112625	1115985	1085650 1119343	1089031 1122698	1092410 1126050	1095785 1129400	1099159 1132747	1102529 1136092	3381 3355
130				1149444							3329
130	1139434 1172713	1142773 1176027	1146110 1179338	1182647	1152776 1185954	1156105 1189258	1159432 1192559	1162756 1195858	1166077 1199154	1169396 1202448	3304
132	1205739	1209028	1212315	1215598	1218880	1222159	1225435	1228709	1231981	1235250	3279
133	1238516	1241781	1245042	1248301	1251558	1254813	1258065	1261314	1264561	1267806	3255
134 135	1271048 1303338	1274288 1306553	1277525   1 <b>30</b> 9767	1280760 1312978	1283993 1316187	1287223 1319393	1290451 1322597	1293676 1325798	1296899 1328998	1300119 1332195	3230 3206
136	1335389	1338581	1341771	1344959	1348144	1351327	1354507	1357685	1360861	1364034	3183
137	1367206	1370375	1373541	1376705	1379867	1383027	1386184	1389339	1392492	1395643	3160
138	1398791	1401937	1405080	1408222	1411361	1414498	1417632	1420765	1423895	1427022	3137
139	1430148	1433271	1436392	1439511	1442628	1445742	1448854	1451964	1455072	1458177	3114
140	1461280	1464381	1467480 1498347	1470577 1501422	1473671	1476763	1479853	1482941	1486027	1489110	3092
141 142	1492191 1522883	1495270 1525941	1528996	1532049	1504494 1535100	1507564 1538149	1510633 1541195	1513699 1544240	1516762 1547282	1519824 1550322	3070 3049
143	1553360	1556396	1559430	1562462	1565492	1568519		1574568		1580608	3027
144	1583625	1586640	1589653	1592663	1595672	1598678	1601683	1604685	1607686	1610684	3006
145 146	1613680 1643529	1616674 1646502	1619666 1649474	1622656 1652443	1625644 1655411	1628630	1631614	1634596	1637575	1640553	2986
147	1673173	1676127	1679078	1682027	1684975	1658376 1687920	1661340 1690864	1664301 1693805	1667261 1696744	1670218 1699682	2965 2945
148	1702617	1705551	1708482	1711412	1714339	1717265	1720188	1723110	1726029	1728947	2926
149	1731863	1734776	1737688	1740598	1743506	1746412	1749316	1752218	1755118	1758016	2906
150	1760913	1763807	1766699	1769590	1772478	1775365	1778250	1781133	1784013	1786892	2887
151	1789769	1792645	1795518	1798389	1801259	1804126	1806992	1809856	1812718	1815578	2867
152 153	1818436 1846914	1821292 1849752	1824147 1852588	1826999 1855422	1829850 1858254	1832698 1861084	1835545 1863912	1838390 1866739	1841234 1869563	1844075 1872386	2848 2830
154	1875207	1878026	1880844	1883659	1886473	1889285	1892095	1894903		1900514	2812
155	1903317	1906118	1908917	1911715	1914510	1917304	1920096	1922886	1925675	1928461	2794
156 157	1931246 1958997	1934029 1961762	1936810 1964525	1939590 1967287	1942367 1970047	1945143	1947918	1950690	1953461	1956229	2776
158	1986571	1981762	1992065	1994809	1997552	1972806 2000293	1975562 2003032	1978317 2005769	1981070 2008505	1983821 2011239	2759 2741
159	2013971	2016702	2019431	2022158	2024883	2027607	2030329	2033049	2035768	2038485	2724
160	2041200	2043913	2046625	2049335	2052044	2054750	2057455	2060159	2062860	2065560	2706
161	2068259	2070955	2073650	2076344	2079035	2081725	2084414	2087100	2089785	2092468	2690
162	2095150	2097830	2100508	2103185	2105860	2108534	2111205	2113876	2116544	2119211	2674
163 164	2121876 2148438	2124540 2151086		2129862 2156376	2132521 2159018	2135178 2161659	2137833 2164298	2140487 2166936	2143139 2169572	2145790 2172207	2657 2641
165	2174839	2177471	2180100	2182729	2185355	2187980		2193225	2195845	2198464	2625
166	2201081	2203696	2206310	2208922	2211533	2214142	2216750	2219356	2221960	2224563	2609
167	2227165 2253093	2229764	2232363 2258260	2234959	2237555	2240148			2247920		2593
168 169		2255677 2281436	2258260 2284004	2260841 2286570	2263421 2289134	2265999	2268576 2294258		2273724 2299377	2276296 2301934	
103	1-010001	1	, ~~0 1007	1~~0010	~~~ 5101	1 501634	Jan Jan Di	-220010	12233011	1~001301	

TOO	AT	TOTAL	TRACT
LOG	A. P.		1015

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No.	0	1	.2	8	4	5	6	7	8	9	Dif.
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172	2355284	2357809	2360331	2362853	2365373	2367891	2370408	2372923	2375437	2377950	2518
173	2380461	2382971	2385479	2387986	2390491	2392995	2395497	2397998	2400498	2402996	2504
174	2405492 2430380	2407988 2432861	2410482 2435341	2412974 2437819	2415465 2440296	2417954 2442771	2420442 2445245	2422929 2447718	2425414 2450189	2427898 2452658	2489 2475
176	2455127	2457594	2460059	2462523	2464986	2467447	2469907	2472365	2474823	2477278	2461
177	2479733 2504200	2482186 2506639	2484637 2509077	2487087 2511513	2489536 2513949	2491984 2516382	2494430 2518815	2496874 2521246	2499318 2523675	2501759 2526103	2448 2433
179	2528530	2530956	2533380	2535803	2538224	2540645	2543063	2545481	2547897	2550312	2421
180	255272 <b>5</b>	2555137	2557548	2559957	2562365	2564772	2567177	2569582	2571984	2574386	2407
181	2576786 2600714	2579185 2603099	2581582 2605484	2583978 2607867	2586373 2610248	2588766 2612629	2591158 2615008	2593549 2617335	2595939 2619762	2598327 2622137	2393 2381
183	2624511	2626883	2629255	2631625	2633993	2636361	2638727	2641092	2643455	2645817	2368
184	2648178	2650538	2652896	2655253	2657609	2659964	2662317	2664669	2667020	2669369	2355
185 186	2671717 2695129	2674064 2697464	2676410 2699797	2678754 2702129	2681097 2704459	2683439 2706788	2685780 2709116	2688119 2711443	2690457 2713769	2692794 2716093	2342 2329
187	2718416	2720738	2723058	2725378	2727696	2730013	2732328	2734643	2736956	2739268	2317
188 189	2741578 2764618	2743888 2766915	2746196 2769211	2748503 2771506	2750809 2773800	2753114 2776092	2755417 2778383	2757719 2780673	2760020 2782962	2762320 2785250	2305 2292
190	2787536		_	2794388	2796669	2798950	2801229	2803507	2805784	2808059	2281
191	2810334	2789821 2812607	2792105 2814879	2817150	2819419	2821688	2823955	2826221	2828486	2830750	2269
192	2833012	2835274	2837534	2839793	2842051	2844307	2846563	2848817	2851070	2853322	2256
193 194	2855573 2878017	2857823 2880255	2860071 2882492	2862319 2884728	2864565 2886963	2866810 2889196	2869054 2891428	2871296 2893660	2873538 2895890	2875778 2898118	2245 2233
195	2900346	2902573	2904798	2907022	2909246	2911468	2913689	2915908	2918127	2920344	2222
196	2922561	2924776	2926990	2929203	2931415	2933626	2935835 2957869	2938044	2940251 2962263	2942457 2964458	2211 2200
197 198	2944662 2966652	2946866 2968845	2949069 2971037	2951271 2973227	2953471 2975417	2955671 2977605	2979792	2960067 2981979	2984164	2986348	2188
199	2988531	2990713	2992893	2995073	2997252	2999429	3001605	3003781	3005955	3008128	2177
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201	3031961 3053514	3034121 3055663	3036280 3057812	<b>393</b> 8438 <b>395</b> 9959	3040595 3062105	3042751 3064250	3044905 3066394	3047059 3068537	3049212 3070680	3051363 3072820	2156 2145
203	3074960	3077099	3079237	3081374	3083509	3085644	3087778	3089910	3092042	3094172	2135
204	3096302 3117539	3098430 3119657	3100557 3121774	3102684 3123889	3104809 3126004	3106933 3128118	3109056 3130231	3111178 31 <b>32343</b>	3113 <b>30</b> 0 3134454	3115420 3136563	2124 2114
206	3138672	3140780	3142887	3144992	3147097	3149201	3151303	3153405	3155505	3157605	2104
207	3159703	3161801	3163898	3165993	3168088	3170181	3172273	3174365	3176455	3178545	2093
208 209	3180633 3201463	3182721 3203540	3184807 3205617	3186893 3207692	3188977 3209767	3191061 3211840	3193143 3213913	3195224 3215984	3197305  3218055	3199384 3220124	2084 2073
210	3222193	3224261	3226327	3228393	3230457	3232521	3234584	3236645	3238706	3240766	2064
211	3242825	3244882	3246939	3248995	3251050	3253104	3255157	3257209	3259260	3261310	2054
212	3263359 3283796	3265407 3285834	3267454 3287872	3269500 3289909	3271545  3291944	3273589 3293979	3275633 3296012	3277675 3298045	3279716 3300077	3281757 3302108	2044 2035
214	3304138	3306167	3308195	3310222	3312248	3314273	3316297	3318320	3320343	3322364	2025
215 216	3324385	3326404	3328423	3330440 3350565	3332457 3352573	33 <b>34473</b> 3354579	3336488 3356585	3338501 3358589	3340514 3360593	3342526 3362596	2016 2006
217	3344538 3364597	3346548 3366598	3348557 3368598	3370597	3372595	3374593	3376589	3378584	3380579	3382572	1998
218	3384565	3386557	3388547	3390537	3392526	3394514	3396502	3398488	3400473	3402458	1988
219	3404441	3406424	3408405	3410386	3412366	3414345	3416323	3418301	3420277	3422252	1979
220 221	3424227 3443923	3426200 3445887	3428173 3447851	3430145 3449814	3432116 3451776	3434086 3453737	3436055 3455698	3438023 3457657	3439991 3459615	3441957 3461573	1970 1961
222	3463530	3465486	3467441	3469395	3471348	3473300	3475252	3477202	3479152	3481101	1952
223	3483049	3484996	3486942	3488887	3490832	3492775	3494718	3496660	3498601	3500541	1943
224	3502480 3521825	3504419 3523755	3506356 3525684	3508293 3527612	3510229 3529 <b>53</b> 9	3512163 3531465	3514098 3533391	3516031 3535316	3517963 3537239	3519895 3539162	1934 1926
226	3541084	3543006	3544926	3546846	3548764	3550682	3552599	3554515	3556431	3558345	1918
227 228	3560259 3579348	3562171 3581253	3564083 3583156	3565994 3585059	3567905 3586961	3569814 3588862	3571723 3590762	3573630 3592662	3575537 3594560	3577443 3596458	1909 1901
229	3598355	3600251	3602146	3604041	3605934	3607827	3609719	3611610	3613500	3615390	1893
230	3617278	3619166	3621053	3622939	3624825	3626709	3628593	3630476	3632358	3634239	1884
231	3636120 3654880	3637999	3639878	<b>3</b> 641756	3643634	3645510 3664230	3647386	3649260	3651134 36698 <b>3</b> 0	3653007 3671695	1876 1869
233	3673559		3677985	3679147	3681009	3689869	3684798	3686587	3688445	3690302	1860
234	3692159	3694014	3695869	3697723	3699576	3701428	3703280	3705131	3706981	3708830	1852
235		3712526 3730960	3714373 3732799	3734637	373647K	3701428 3719909 3738311 3756636	3740147	3741983	3743817	3727279 3745651	1844 1836
237	3747483	3749316	3751147	3752977	3754807	3756636	3758464	3760292	3762119	3763944	1829
238	3765770 3783979	3767594	3769418	3771240	3773063	3774884	3776704	3778524	3780343 5709400	3782161 3800302	1821 1814
209	6169919	0100100	0101012	0103441	(0131 <i>0</i> 41	10130000	0103000	0.30000	0130432	JUUJUZ	1014

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OF	NU	MBE	RS.
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	OF NUMBERS.										
No.	0	1_1_	2	8	4	5	6	7	8	9	Dif.
240	3802112	3803922	3805730	3807538	3809345	3811151	3812956	3814761	3816565	3818368	1806
241 242	3820170 3838154	3821972 38 <del>3</del> 9948	3823773 3841741	3825573 3843534	3827373 3845326	3829171 3847117	3830969 3848908	3832767 3850698	3834563 38 <b>5</b> 2487	3836359 3854275	1798 1791
243	3856063	3857850	3859636	3861421	3863206	3864990	3866773	3868555		3872118	1784
244	3873898	3875678	3877457	3879235	3881012	3882789	3884565	3886340	3888114		1777
245 246	3891661 3909351	3893433 3911116	3895205 3912880	3896975  3914644	3898746 3916407	3900515 3918169	3902284 3919931	3904052 3921691	3905819 3923452	3907585  3925211	1768 1762
247	3926970	3928727	3930485	3932241	3933997	3935752	3937506	3939260	3941013	3942765	1755
248	3944517	3946268	3948018	3949767	3951516	3953264	3955011	3956758	3958504	3960249	1748
249	3961993	3963737	3965480	3967223	3968964	3970705	3972446	3974185	3975924	3977663	1741
250	3979400	3981137	3932873	3984608	3986343	3988077	3989811	3991543	3993275	3995007	1734
251 252	3996737 4014005	3998467 4015728	4000196 4017451	4001925 4019173	4003653 4020894	4005380 4022614	4007106 4024333	4008832 4026052	4010557 4027771	4012282 4029488	1727 1720
253	4031205	4032921	4034637	4036352	4038066	4039780	4041492	4043205	4044916	4046627	1714
254	4048337	4050047	4051755	4053464	4055171	4056878	4058584	4060289	4061994	4063698	1707
255	4065402	4067105 4084096	4068807	4070508	4072209	4073909	4075608	4077307 4094259	4079005 4095950		1700
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258	4116197	4117880	4119562	4121244	4122925	4124605	4126285	4127964	4129643	4131321	1680
259	4132998	4134674	4136350	4138025	4139700	4141374	4143047	4144719	4146391	4148063	1674
260	4149733	4151404	4153073	4154742	4156410	4158077	4159744	4161410	4163076	4164741	1667
261 262	4166405 4183013	4168069 4184670	4169732 4186327	4171394 4187983	4173056 4189638	4174717 4191293	4176377  419 <b>2</b> 947	4178037 4194601	4179696 4196254	4181355 4197906	1661 1655
263	4199557	4201208	4202859	4204509	4206158	4207806	4209454	4211101	4212748	4214394	1648
264	4216039	4217684	4219328	4220972	4222615	4224257	4225898	4227539	4229180	4230820	1642
265 266	4232459 4248816	4234097 4250449	4235735 4252081	4237372 4253712	4239009 4255342	4240645 4256972	4242281 4258601	4243916 4260230	4245550 4261858	4247183 4263486	1636 1630
267	4265113	4266739	4268365	4269990	4271614	4273238	4274861	4276484	4278106	4279727	1624
268	4281348	4282968	4284588	4286207	4287825	4289443	4291060	4292677	4294293	4295908	1618
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469	6711728	6712654	6713580	6714506	6715431	6716356	6717281	6718206	6719130	6720054	925
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477	6785184	6786094	6787004	6787914	6788824	6789734	6790643	6791552	6792461	6793370	910
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## LOGARITHMS

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## OF NUMBERS.

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909	9 (20050)	3121118	9121581)	y (28043)	9128506	9 /28968	9 (29430)	9/29892	9/30354	9730816	462
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992 993		9965554 9969930	9965992 9970367	9966430 9970804	9966868 9971242		996 <b>7743</b> 99 <b>721</b> 16	9968180 9972553	9968618 9972990	99690 <b>5</b> 5 99 <b>73</b> 42 <b>7</b>	437
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1005				0022957	0023339		0024253	0024685 0029001		0025548 0029863	432 432
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1008	3   0034605	00350361	0035467	0035898	0036328	0036759	0037190	0037620	0038051	0038481	431
1009	0038912	0039342	0039772	0040203	0040633	0041063	0041493	0041924	0042354	0042784	430
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1	Sine.	Dif.	Co-secant.	Tangent.	Dif	Co-tangent.	Secant.	D.	Co-sine.	
0	Inf. Neg.	Infinite.	Infinite.	Inf. Neg.	Infinite.	Infinite.	10.0000000	0	10 .0000000	60
1 2	6.4637261 6.7647561	3010300	13.5362739 13.2352439	6.4637261 6.7647562	3010301	13.5362739 13.2352438	10.0000000	1	9,9999999	59 58
3	6.9408473	1760912 1249387	13.0591527	6.9408475	1760913	13.0591525	10.0000002	1	9.9999998	57
4	7.0657860	969100	12.9342140	7.0657863	1249388 969101	12.9342137	10.0000003	2	9.9999997	56
5	7.1626960	791811	12.8373040	7.1626964	791814	12.8373036	10.0000005	2	9.9999995	55
6	7.2418771	669468	12.7581229	7.2418778	669470	12.7581222	10.0000007	2	9.9999993	54
7	7.3088239	579918	12.6911761	7.3088248	579921	12.6911752	10.0000009	3	9.9999991	53
8	7.3668157	511524	12.6331843	7.3668169	511527	12.6331831	10.0000012	3	9.9999988	52
10	7.4179681 7.4637255	457574	12.5820319 12.5362745	7.4179696 7.4637273	457577	12.5820304 12.5362727	10.0000015 10.0000018	3	9.9999985 9.9999982	51 50
ii	7.5051181	413926 377884	12.4948819	7.5051203	413930 377888	12.4948797	10.0000022	4	9.9999978	
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13	7.5776684		12,4223316	7.5776715	347624	12.4223285	10,0000031	5	9.9999969	47
14	7.6098530	321846 299630	12.3901470	7.6098566	321851 299635	12.3901434	10.0000036	5	9,9999964	46
15	7.6398160	280285	12.3601840	7.6398201	280291	12.3601799	10.0000041	6	9.9999959	
16 17	7.6678445 7.6941733	263288	12.3321555 12.3058267	7.6678492 7.6941786	263294	12.3321508 12.3058214	10.0000047 10.0000053	6	9.9999953 9.9999947	44
18	7.7189966	248233	12.2810034	7.7190026	248240	12.2809974	10.0000060	7	9.9999940	42
19	7.7424775	234809	12.2575225	7.7424841	234815	12.2575159	10.0000066	6	9.9999934	1-
20	7.7647537	222762	12.2352463	7.7647610	222769	12.2352390	10.0000073	7	9.9999927	41
21	7.7859427	211890 202031	12.2140573	7.7859508	211898 202039	12.2140492	10.0000081	8	9.9999919	39
22 23	7.8061458	193049	12.1938542	7.8061547	193057	12.1938453	10,0000089	8	9.9999911	38
24	7.8254507 7.8439338	184831	12.1745493 12.1560662	7.8254604 7.8439444	184840	12.1745396 12.1560556	10.0000097 10.0000106	9	9.9999903 9.9999894	37 36
25		177285			177294			9		-
26	7.8616623 7.8786953	170330	12.1383377 12.1213047	7.8616738 7.8787077	170339	12.138 <b>3262</b>   12.1212923	10.0000115 10.0000124	9	9.9999885 9.9999876	35
27	7.8950854	163901	12.1049146	7.8950988	163911	12.1049012	10.0000134	10	9.9999866	34 33
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29 30	7.9261190 7.9408419	147229	12.0738810	7.9261344	147240	12.0738656	10.0000155	Ιō	9.9999845	
I) I		142400	12.0591581	7.9408584	142412	12.0591416	10.0000165	12	9.9999835	30
31 32	7.9550819	137879	12.0449181	7.9550996	137890	12.0449004	10.0000177	11	9.9999823	29
33	7.9688698 7.9822334	133636	12.0311302 12.0177666	7.9688886 7.9822534	133648	12.0311114 12.0177466	10,0000188 10,0000200	12	9.9999812 9.9999800	28 27
34	7.9951980	129646	12.0048020	7.9952192	129658	12.0047808	10.0000212	12	9.9999788	
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47	8.1358104	93394	11.8735290 11.8641896	8.1265099 8.1358510	93411	11.8734901 11.8641490	10.0000389 10.0000406	17	9.9999611 9.9999594	14
48	8.1449532	91428	11.8550468	8.1449956	91446	11.8550044	10.0000423	17	9.9999577	13 12
49	8.1539075	89543	11.8460925	8.1539516	89560	11.8460484	10.0000441	18	9,9999559	11
50	8.1626808	87733	11.8373192	8.1627267	87751	11.8372733	10.0000459	18	9.9999541	10
51	8.1712804	85996 84325	11.8287196	8.1713282	86015 84344	11.8286718	10.0000478	19 19	9.9999522	9
52 53	8.1797129 8.1879848	82719	11.8202871 11.8120152	8.1797626 8.1880364	82738	11.8202374 11.8119636	10.0000497	19	9.9999503	8
54	8,1961020	81172	11.8038980	8.1961556	81192	11.8038444	10.0000516 10.0000536	20	9.9999484	6
55	8.2040703	79683	11.7959297	8.2041259	79703	11.7958741	10,0000556	20		-
56	8.2118949	78246	11.7881051	8.2119526	78267	11.7880474	10.0000556	20	9.9999444 9.9999424	5 4
57	8.2195811	76862 75524	11.7804189	8.2196408	76882	11.7803592	10.0000597	21	9.9999403	3
58 59	8.2271335 8.2345568	74233	11.7728665	8.2271953	75545 74255	11.7728047	10.0000618	21 22	9.9999382	2
60	8.2345568 8.2418553	72985	11.7654432 11.7581447	8.2346208 8.2419215	73007	11.7653792 11.7580785	10.0000640 10.0000662	22	9.9999360 9.9999338	1
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	D.	9.9999338 Sine.	0
-	<u> </u>	, 2	, Decant.	1 Co-ming.	1 211.	1 rangent.	o-scant.	שן.		<u>'</u>
90	) <sub>o</sub>								8	90

10	***********								17	78°
	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	D.	Co-sine.	11
			11.7581447	8.2419215		11.7580785	10.0000662		9.9999338	60
0	8.2418553 8.2490332	71779	11.7509668	8.2491015	71800	11.7508985	10.0000684	22 22	9.9999316	59
2	3.2560943	70611 69481	11.7439057	8.2561649	70634 69504	11.7438351	10.0000706	23	9.9999294	58
3	8.2630424	68386	11.7369576	8.2631153	68410	11.7368847	10.0000729	24	9.9999271	57
4	8.2698810	67326	11.7301190 11.7233864	8.2699563 8.2766912	67349	11.7300437 11.7233088	10.0000753	23	9.9999247 9.9999224	56 55
5	8.2766136 8.2832434	66298	11.7167566	8.2833234	66322	11.7166766	10.0000800	24	9.9999200	54
-		65300	11.7102266	8.2898559	65325	11.7101441	10.0000825	25	9.9999175	53
7 8	8.2897734 8.2962067	64333	11.7037933	8.2962917	64358	11.7037083	10.0000820	25	9.9999150	52
9	8.3025460	63393	11.6974540	8.3026335	63418	11.6973665	10.0000875	25 25	9.9999125	51
10	8.3087941	62481 61595	11.6912059	8.3088842	62507 61620	11.6911158	10.0000900	26	9.9999100	50
11	8.3149536	60733	11.6850464	8.3150462	60759	11.6849 <b>53</b> 8 11.6788779	10.0000926 10.0000953	27	9.9999074	49 48
12	8.3210269	59894	11.6789731	8.3211221	59922			26	9.9999047	
13	8.3270163	59080	11.6729837	8.3271143	59106	11.6728857	10.0000979	27	9.9999021	47
14	8.3329243	58286	11.6670757 11.6612471	8.3330249 8.3388563	58314	11.6669751 11.6611437	10.0001006 10.0001034	28	9.9998994 9.9998966	46 45
15 16	8.3387529 8.3445043	57514	11.6554957	8.3446105	57542	11.6553895	10.0001061	27	9.9998939	44
17	8.3501805	56762 56030	11.6498195	8.3502895	56790	11.6497105	10.0001089	28 29	9.9998911	43
18	8.3557835		11.6442165	8.3558953	56058	11.6441047	10.0001118	29	9.9998882	42
19	8.3613150	55315	11.6386850	8.3614297	55344	11.6385703	10.0001147	29	9.9998853	41
20	8.3667769	54619 53941	11.6332231	8.3668945	54648 53970	11.6331055	10.0001176	30	9.9998824	40
21	8.3721710	53278	11.6278290	8.3722915	53308	11.6277085	10.0001206 10.0001236	30	9.9998794	39 38
22 23	8.3774988 8.3827620	52632	11.6225012 11.6172380	8.3776223 8.3828886	52663	11.6223777 11.6171114	10.0001236	30	9.9998764 9.9998734	37
24	8.3879622	52002	11.6120378	8.3880918	52032	11.6119082	10.0001297	31	9.9998703	36
25		51386	11.6068992	8.3932336	51418	11.6067664	10.0001328	31	9.9998672	_
26	8.3931008 8.3981793	50785	11.6018207	8.3983152	50816	11.6016848	10.0001328	31	9.9998641	35 34
27	8.4031990	50197	11.5968010	8,4033381	50229	11.5966619	10.0001391	32 32	9.9998609	33
28	8.4081614	49624 49062	11.5918386	8.4083037	49656 49095	11.5916963	10.0001423	33	9.9998577	32
29	8.4130676	48514	11.5869324 11.5820810	8.4132132	48547	11.5867868   11.5819321	10.0001456 10.0001488	32	9.9998544	31
30	8.4179190	47978		8.4180679	48011			34	9.9998512	30
31	8.4227168	47453	11.5772832	8.4228690	47486	11.5771310 11.5723824	10.0001522	33	9.9998478 9.9998445	29
32 33	8.4274621 8.4321561	46940	11.5725379 11.5678439	8.4276176 8.4323150	46974	11.5676850	10.0001555 10.0001589	34	9.9998411	28 27
34	8.4367999	46438	11.5632001	8.4369622	46472	11.5630378	10.0001624	35	9.9998376	26
35	8.4413944	45945	11.5586056	8.4415603	45981 45500	11.5584397	10.0001658	34 36	9.9998342	25
36	8.4459409	45465 44993	11.5540591	8.4461103	1	11.5538897	10.0001694	35	9.9998306	24
37	8.4504402		11.5495598	8.4506131	45028	11.5493869	10.0001729		9.9998271	23
38	8.4548934	44532 44079	11.5451066	8.4550699	44568 44115	11.5449301	10.0001765	36 36	9.9998235 9.9998199	22
39	8.4593013	43636	11.5406987	8.4594814	43672	11.5405186 11.5361514	10.0001801 10.0001838	37	9.9998199	21
40 41	8.4636649 8.4679850	43201	11.5363351 11.5320150	8.4638486 8.4681725	43239	11.5318275	10.0001838	37	9.9998125	20 19
42	8.4722626	42776	11.5277374	8.4724538	42813	11.5275462	10.0001912	37	9.9998088	18
43	8.4764984	42358	11.5235016	8.4766933	42395	11.5233067	10.0001950	38	9.9998050	17
44	8.4806932	41948	11.5193068	8.4808920	41987	11.5191080	10.0001988	38	9.9998012	16
45	8.4848479	41547 41153	11.5151521	8.4850505	41585 41191	11,5149495	10.0002026	38 39	9.9997974	15
46	8.4889632	40766	11,5110368	8.4891696	40806	11.5108304 11.5067498	10.0002065 10.0002104	39	9.99979 <b>3</b> 5 9.9997896	14
47 48	8.4930398 8.4970784	40386	11.5069602 11.5029216	8.4932502 8.4972928	40426	11.5007498	10.0002104	40	9.9997856	13 12
		40014			40054	11.4987018	10.0002183	39	9.9997817	_
49 50	8.5010798 8.5050447	39649	11.4989202 11.4949553	8.5012982 8.5052671	39689	11.4987018	10.0002183	41	9.9997776	11 10
51	8.5089736	39289	11.4910264	8.5092001	39330	11.4907999	10.0002264	40	9.9997736	9
52	8.5128673	38937 38591	11.4871327	8.5130978	38977 38632	11.4869022	10.0002305	41 42	9.9997695	8
53	8.5167264	38250	11.4832736	8.5169610	38292	11.4830390 11.4792098	10.0002347 10.0002388	41	9.9997653 9.9997612	7
54	8.5205514	37916	11.4794486	8.5207902	37958			42		6
55	8.5243430	37587	11.4756570	8.5245860	<b>3</b> 7630	11.4754140	10.0002430	43	9.9997570	5
56 57	8.5281017	37264	11.4718983 11.4681719	8.5283490 8.5320797	37307	11.4716510 11.4679203	10.0002473 10.0002516	43	9.99975 <b>2</b> 7 9.99974 <b>8</b> 4	3
58	8.5318281 8.5355228	36947	11.4681719	8.5357787	36990	11.4642213	10.0002559	43	9.9997441	2
59	8.5391863	36635	11.4608137	8.5394466	36679 36372	11.4605534	10.0002602	43	9.9997398	1
60	8.5428192	36329	11.4571808	8.5430838	50512	11.4569162	10.0002646		9.9997354	0
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	D.	Sine.	7
ll —	<u>'</u>	·	•		<del></del>					
91	0						-		8	80

20	)	<del></del>							17	770
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	D.	Co-sine.	1'
0	8.5428192	36026	11.4571808	8.5430838	3C071	11.4569162	10.0002646	45	9.9997354	60
1	8.5464218	35730	11.4535782	8.5466909	35774	11.4533091	10.0002691	44	9.9997309	
2 3	8.5499948 8.5535386	35438	11.4500052 11.4464614	8.5502683 8.5538166	35483	11.4497317 11.4461834	10.0002735 10.0002780	45	9.9997265 9.9997220	
4	8.5570536	35150	11.4429464	8.5573362	35196	11.4426638	10.0002826	46	9.9997174	56
5	8.5605404	34868	11.4394596	8.5608276	34914 34636	11.4391724	10.0002872	46 46	9.9997128	55
6	8.5639994	34590	11.4360006	8.5642912		11.4357088	10.0002918		9.9997082	54
7	8.5674310	34316	11.4325690	8.5677275	34363	11.4322725	10.0002964	46	9.9997036	53
8	8.5708357	34047	11.4291643	8.5711368	31093	11.4288632	10.0003011	47 47	9.9996989	52
9	8.5742139	33782 33521	11.4257861	8.5745197	33829 33569	11.4251803	10.0003058	48	9.9996942	
10	8.5775660	33263	11.4224340	8.5778766	33311	11.4221234	10.0003106	48	9.9996894	
11	8.5808923 8.5841933	33010	11.4191077	8.5812077 8.5845136	33059	11.4187923   11.4154864	10.0003154 10.0003202	48	9.9996846 9.9996798	
12		32761	11.4158067		32809			49		I
13	8.5874694	32515	11.4125306	8.5877945	32564	11.4122055	10.0003251	49	9.9996749	47
14	8.5907209 8.5939483	32274	11.4092791	8.5910509 8.5942832	32323	11.4089491   11.4057168	10.0003300 10.0003350	50	9.9996700 9.9996650	
15 16	8.5971517	32034	11.4060517 11.4028483	8.5974917	32085	11.4025083	10.0003339	49	9.9996601	44
17	8.6003317	31800	11.3996683	8.6006767	31850	11.3993233	10.0003450	51	9.9996550	
18	8.6034886	31569	11.3965114	8.6038386	31619	11.3961614	10.0003500	50	9.9996500	42
19	8.6066226	31340	11.3933774	8.6069777	31391	11.3930223	10.0003551	51	9.9996449	41
20	8.6097341	31115	11.3902659	8.6100943	31166	11.3899057	10.0003602	51	9.9996398	40
21	8.6128235	30894 30675	11.3871765	8.6131889	30946 30727	11.3868111	10.0003654	52 52	9.9996346	39
22	8.6158910	30459	11.3841090	8.6162616	30511	11.3837384	10.0003706	52	9.9996294	38
23	8.6189369	30247	11.3810631	8.6193127	30300	11.3806873	10.0003758	53	9.9996242	37 36
24	8.6219616	30037	11.3780384	8.6223427	30091	11.3776573	10.0003811	53	9.9996189	
25	8.6249653	29831	11.3750347	8.6253518	29884	11.3746482	10.0003864	54	9.9996136	35
26	8.6279484	29627	11.3720516	8.6283402	29681	11.3716598	10.0003918	54	9.9996082	34 33
27 28	8.6309111 8.6338537	29426	11.3690889 11.3661463	8.6313083 8.6342563	39480	11.3686917 11.3657437	10.0003972	54	9.9996028	32
29	8.6367764	29227	11.3632236	8.6371845	29282	11.3628155	10.0004081	55	9.9995919	31
30	8.6396796	29032	11.3603204	8.6400931	29086	11.3599069	10.0004135	51	9.9995865	30
31	8.6425634	28838	11.3574366	8 6429825	28894	11.3570175	10.0004191	56	9.9995809	29
32	8.6454282	28643	11.3545718	8.6458528	28703	11.3541472	10.0004131	56	9.9995753	28
33	8.6482742	28460	11.3517258	8.6487014	28516 28331	11.3512956	10.0004303	56 56	9.9995697	27
34	8.6511016	28274 28091	11.3488984	8.6515375	28147	11.3484625	10.0004359	57	9.9995641	26
35	8.6539107	<b>27</b> 910	11.3460893	8.6513522	27968	11.3456478	10.0004416	57	9.9995584	25
36	8.6567017	27731	11.3432983	8.6571490	27789	11.3428510	10.0004473	58	9.9995527	24
37	8.6594748		11.3405252	8.6599279	27612	11.3400721	10.0004531	58	9.9995469	23
38	8.6622303	27555 27381	11.3377697	8.6626891	27110	11.3373109	10.0004589	58	9.9995411	22
39 40	8.6649684	27209	11.3350316	8.6654331	27267	11.3345669	10.0004647	58	9.9995353	21 20
41	8.6676893 8.6703932	27039	11.3323107 11.3296068	8.6681598 8.6708697	27099	11.3318402 11.3291303	10.0004705 10.0004764	59	9.9995295 9.9995236	19
42	8.6730804	26872	11.3269196	8.6735628	26931	11.3264372	10.0004824	60	9.9995176	18
43		26706			26765			60	9.9995116	17
44	8.6757510 8.6784052	26542	11.3242490 11.3215948	8.6762393 8.6788996	26603	11.3237607 11.3211004	10.0004884 10.0004944	60	9.9995056	16
45	8.6810433	26381	11.3189567	8.6815437	26441	11.3184563	10.0005004	60	9.9994996	15
46	8.6836654	26221	11.3163346	8.6841719	26282 26125	11.3158281	10.0005065	61	9.9994935	14
47	8.6862718	26064 25907	11.3137282	8.6867844	25969	11.3132156	10.0005126	62	9.9994874	13
48	8.6888625	25754	11.3111375	8.6893813	25816	11.3106187	10.0005188	62	9.9994812	12
49	8.6914379	25601	11.3085621	8.6919629	25663	11.3080371	10.0005250	62	9.9994750	11
50	8.6939980	25451	11.3060020	8.6945292	25514	11.3054708	10.0005312	63	9.9994688	10
51 52	8.6965431 8.6990734	25303	11.3034569	8.6970806	25366	11.3029194	10.0005375	63	9.9994625	9
53	8.6990734 8.7015889	25155	11.3009266 11.2984111	8.6996172 8.7021390	25218	11.3003828 11.2978610	10.0005438 10.0005502	64	9.9994562 9.9994498	7
54	8.7040899	25010	11.2959101	8.7046465	25075	11.2953535	10.0005565	63	9.9994435	6
55	8,7065766	24867			24930			65	9.9994370	5
56	8.7090490	24724	11.2934234 11.2909510	8.7071395 8.7096185	24790	11.2928605 11.2903815	10.0005630 10.0005694	64	9.9994370	4
57	8.7115075	24585	11.2884925	8.7120834	24649	11.2379166	10.0005759	65	9.9994241	3
58	8.7139520	24445 24309	11.2860480	8.7145345	24511 24374	11.2854655	10.0005824	65 66	9.9994176	2
59	8.7163829	24173	11.2836171	8.7169719	24239	11.2830281	10.0005890	66	9.9994110	1
60	8.7188002		11.2811998	8.7193958		11.2806042	10.0005956		9.9994044	0
′	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	D.	Sine.	'
92	30								8	70

3°									- 17	<b>6°</b>
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	D.	Co-sine.	1.
0	8.7188002	24038	11.2811998	8.7193958	24105	11.2806042	10.0005956	66	9.9994044 9.9993978	60 59
2	8.7212040 8.7235946	23906	11.2787960 11.2764054	8.7218063 8.7242035	23972	11.2781937 11.2757965	10.0006022 10.0006089	67	9.9993911	58
$\tilde{3}$	8.7259721	23775	11.2740279	8.7265877	23842	11.2734123	10.0006156	67	9.9993844	57
4	8.7283366	23645 23516	11.2716634	8.7289589	23712 23585	11.2710411	10.0006224	68 68	9.9993776	56
5	8.7306882	23390	11.2693118	8.7313174	23457	11.2686826	10.0006292	68	9.9993708	55
_6	8.7330272	23263	11.2669728	8.7336631		11.2663369	10.0006360		9.9993640	54
7	8.7353535		11.2646465	8.7359964	23333	11.2640036	10.0006428	68	9.9993572	53
8	8.7376675	23140 23016	11.2623325	8.7383172	23208	11.2616828	10,0006497	69	9.9993503	52
9	8.7399691	22895	11.2600309	8.7406258	23036 22964	11.2593742	10.0006567	70 69	9.9993433	51
10	8.7422586	22774	11.2577414	8.7429222	22845	11.2570778	10.0006636	71	9.9993364	50
11 12	8.7445360 8.7468015	22655	11.2554640 11.2531985	8.7452067 8.7474792	22725	11.2547933 11.2525208	10,0006707	70	9.9993293 9.9993223	49
-		22538			22608			71		
13	8.7490553	22420	11.2509447	8.7497400	22492	11.2502600	10.0006948	71	9.9993152	47
14	8.7512973	22305	11.2487027	8.7519892	22377	11.2480108	10.0006919	72	9,9993081	46
15 16	8.7535278 8.7557469	22191	11.2464722 11.2442531	8.7542269	22262	11.2457731	10.0006991	71	9.9993009 9.9992938	45
17	8.7579546	22077	11.2420454	8.7564531 8.7586681	22150	11.2435469 11.2413319	10.0007062 10.0007135	73	9.9992865	44
18	8.7601512	21966	11.2398488	8.7608719	22038	11.2391281	10.0007207	72	9.9992793	42
19	8.7623366	21854			21928			73		
20	8.7623366 8.7645111	21745	11.2376634 11.2354889	8.7630647 8.7652465	21818	11.2369353 11.2347535	10.0007230 10.0007354	74	9.999 <b>2720</b> 9.999 <b>26</b> 46	41 40
21	8.7666747	21636	11.2333253	8.7674175	21710	11.2325825	10.0007428	74	9.9992572	39
22	8.7688275	21528	11.2311725	8.7695777	21602	11.2304223	10.0007502	74	9.9992498	38
23	8.7709697	21422	11.2290303	8.7717274	21497	11.2282726	10.0007576	74	9.9992424	37
24	8.7731014	21317	11.2268986	8.7738665	21391	11.2261335	10.0007651	75	9.9992349	36
25	8.7752226	21212	11.2247774	8.7759952	21287	11.2240048	10.0007726	75	9.9992274	35
26	8.7773334	21108	11.2226666	8.7781136	21184	11.2218864	10.0007802	76	9.9992198	34
27	8.7794340	·21006 20904	11.2205660	8.7802218	21082	11:2197782	10.0007878	76	9.9992122	33
28	8.7815244	20804	11.2184756	8.7823199	20981 20880	11.2176801	10.0007954	76 77	9.9992046	32
29 30	8.7836048	20705	11.2163952	8.7844079	20782	11.2155921	10.0008031	77	9.9991969	31
<u> </u>	8.7856753	20606	11.2143247	8.7864861	20683	11.2135139	10.0008108	77	9.9991892	30
31	8.7877359	20508	11.2122641	8.7885544	20586	11.2114456	10.0008185	78	9.9991815	29
32	8.7897867	20411	11,2102133	8.7906130	20490	11.2093870	10.0008263	78	9.9991737	28
33	8.7918278 8.7938594	20316	11.2081722	8.7926620	20394	11.2073380	10.0008341	79	9.9991659	27
35	8.7958814	20220	11.2061406 11.2041186	8.7947014 8.7967313	20299	11.2052986 11.2032687	10.0008420 10.0008499	79	9.9991580 9.9991501	26 25
36	8.7978941	20127	11.2021059	8.7987519	20206	11.2012481	10.0008578	79	9.9991422	24
-		20033			20113	<del></del>		80		
37 38	8.7998974 8.8018915	19941	11.2001026	8.8007632	20021	11.1992368	10.0008658	80	9.9991342 9.9991262	23
39	8.8038764	19849	11.1981085 11.1961236	8.8027653 8.8047583	19930	11.1972347 11.1952417	10.0008738 10.0008818	80	9.9991182	22 21
40	8.8058523	19759	11.1941477	8.8067422	19839	11.1932578	10.0008899	81	9.9991101	20
41	8,8078192	19669 19580	11.1921808	8.8087172	19750	11.1912828	10.0008980	81 82	9.9991020	19
42	8.8097772		11.1902228	8.8106834	19662	11.1893166	10.0009062		9.9990938	18
43	8.8117264	19492	11.1882736	8.8126407	19573	11.1873593	10.0009144	82	9.9990856	17
44	8.8136668	19404	11.1863332	8.8145894	19487	11.1854106	10.0009226	82	9.9990774	16
45	8.8155985	19317 19232	11.1844015	8.8165294	19400 19314	11.1834706	10.0009309	83 33	9.9990691	15
46	8.8175217	19146	11.1824783	8.8184608	19230	11.1815392	10.0009392	83	9.9990608	14
47	8.8194363 8.8213425	19062	11.1805637 11.1786575	8.8203838 8.8222984	19146	11.1796162	10.0009475 10.0009559	84	9.9990525 9.9990441	13
_		18979			19062	11.1777016		84		12
49	8.8232404	18895	11.1767596	8.8242046	18980	11.1757954	10.0009643	84	9.9990357	11
50 51	8.8251299	18813	11.1748701	8.8261026	18898	11.1738974	10.0009727	85	9.9990273	10
52	8.8270112 8.8288844	18732	11.1729888 11.1711156	8.8279924 8.8293741	18817	11.1720076 11.1701259	10.0009812 10.0009897	85	9.9990188 9.9990103	9 <sup>'</sup>
53	8.8307495	18651	11.1692505	8.8317478	18737	11.1682522	10.0009983	86	9.9990017	7
54	8.8326066	18571	11.1673934	8.8336134	18656	11.1663866	10.0010069	86	9.9989931	6
55	8.8344557	18491			18578			86	9.9989345	5
56	8.8362969	18412	11.1655443 11.1637031	8.8354712 8.8373211	18499	11.1645288 11.1626789	10.0010155 10.0010242	87	9.9989345	4
57	8.8381304	18335	11.1618696	8.8391633	18422	11.1626769	10.0010242	87	9.9989671	3
58	8.8399561	18257 18180	11.1600439	8.8409977	18344	11.1590023	10.0010416	87 88	9.9989584	2
59	8.8417741	18104	11.1582259	8.8428245	18268 18192	11.1571755	10.0010504	88	9.9989496	ŀ
60	8.8435845	10101	11.1564155	8.8446437	10192	11.1553563	10.0010592		9.9989408	0
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent,	Co-secant.	D.	Sine.	7
93°										
30										

4° 175°											
-	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	′	
0	8.8435845	18029	11.1564155	8.8446437	18117	11.1553563	10.0010592	89	9.9989408	60	
1	8.8453874	17953	11.1546126	8.8464554	18043	11.1535446	10.0010681	89	9.9989319	59 58	
2	8.8471827 8.8489707	17880	11.1528173 11.1510293	8.8482597 8.8500566	17969	11.1517403 11.1499434	10.0010770 10.0010859	89	9.9989 <b>23</b> 0 9.9989141	57	
3 4	8.8507512	17805	11.1492488	8.8518461	17895	11.1481539	10.0010948	89	9.9989052	56	
5	8.8525245	17733	11.1474755	8.8536283	17822	11.1463717	10.0011038	90 91	9.9988962	55	
6	8.8542905	17660	11.1457095	8.8554034	17751	11.1445966	10.0011129	91	9.9988871	54	
7	8.8560493	17588	11.1439507	8.8571713	17679	11.1428287	10.0011220	91	9.9988780	53	
8	8.8578010	17517 17447	11.1421990	8.8589321	17608 17538	11.1410679	10.0011311	91	9.9988689	52	
9	8.8595457	17376	11.1404543	8.8606859	17468	11.1393141	10.0011402	92	9.9988598	51 50	
10	8.8612833 8.8630139	17306	11.1387167 11.1369861	8.8624327 8.8641725	17398	11.1375673 11.1358275	10.0011494 10.0011586	92	9.9988506 9.9988414	49	
11 12	8.8647376	17237	11.1352624	8.8659055	17330	11.1340945	10.0011679	93	9.9988321	48	
_		17169	11.1335455		17262	11.1323683	10.0011772	93	9.9988228	47	
13 14	8.8664545 8.8681646	17101	11.1318354	8.8676317 8.8693511	17194	11.1323663	10.0011772	93	9.9988135	46	
15	8.8698680	17034	11.1301320	8.8710638	17127	11.1289362	10.0011959	94 94	9.9988041	45	
16	8.8715646	16966 16900	11.1284354	8.8727699	17061 16995	11.1272301	10.0012053	94	9.9987947	44	
17	8.8732546	16835	11.1267454	8.8744694	16929	11.1255306	10.0012147 10.0012242	95	9.9987853 9.9987758	43	
18	8.8749381	16769	11.1250619	8.8761623	16864	11.1238377		95		42	
19	8.8766150	16704	11.1233850	8.8778487	16799	11.1221513	10.0012337	96	9.9987663	41	
20	8.8782854 8.8799493	16639	11.1217146 11.1200507	8.8795286 8.8812022	16736	11.1204714 11.1187978	10.001 <b>2433</b> 10.001 <b>252</b> 9	96	9.9987567 9.9987471	40 39	
21 22	8.8816069	16576	11.1183931	8.8828694	16672	11.1171306	10.0012625	96	9.9987375	38	
23	8.8832581	16512	11.1167419	8.8845303	16609	11.1154697	10.0012722	97 97	9.9987278	37	
24	8.8849031	16450	11.1150969	8.8861850	16547	11.1138150	10.0012819	97	9.9987181	36	
25	8.8865418	16387	11.1134582	8.8878334	16484	11.1121666	10.0012916		9.9987084	35	
26	8.8881743	16325 16264	11.1118257	8.8894757	16423 16362	11.1105243	10.0013014	98 98	9.9986986	34	
27	8.8898007	16202	11.1101993	8.8911119	16301	11.1083881	10.0013112	98	9.9986888	33	
28 29	8.8914209 8.8930351	16142	11.1085791 11.1069649	8.8927420 8.8943660	16240	11.1072580 11.1056340	10.0013210 10.0013309	99	9.9986790 9.9986691	32 31	
30	8.8946433	16082	11.1053567	8.8959842	16182	11.1040158	10.0013409	100	9.9986591	30	
_		16022	11.1037545		16121		10.0013508	99		ı —	
31 32	8.8962455 8.8978418	15963	11.1037545	8.8975963 8.8992026	16063	11.1024037 11.1007974	10.0013508	100	9.9986492 9.9986392	259 28	
33	8.8994322	15904 15846	11.1005678	8.9008030	16004	11.0991970	10.0013708	100	9.9986292	27	
34	8.9010168	15787	11.0989832	8.9023977	15947 15889	11.0976023	10.0013809	101 101	9.9986191	26	
35	8.9025955	15730	11.0974045	8.9039866	15831	11.0960134	10.0013910	102	9.9986090	25	
36	8.9041685	15673	11.0958315	8.9055697	15775	11.0944303	10.0014012	102	9.9985988	24	
37	8.9057358	15617	11.0942642	8.9071472	15718	11.0928528	10.0014114	102	9.9985886	23	
38 39	8.907297 <i>5</i> 8.9088535	15560	11.0927025 11.0911465	8.9087190 8.9102853	15663	11.0912810 11.0897147	10.0014216 10.0014318	102	9.9985784 9.9985682	22	
40	8.9104039	15504	11.0895961	8.9118460	15607	11.0881540	10.0014318	103	9.9985579	21 20	
41	8.9119487	15448 15394	11.0880513	8.9134012	15552 15497	11.0865988	10.0014525	104 103	9.9985475	19	
42	8.9134881	15338	11.0865119	8.9149509	1	11.0850491	10.0014628	103	9.9985372	18	
43	8,9150219	15285	11.0849781	8.9164952	15443	11.0835048	10.0014732	104	9.9985268	17	
44	8.9165504	15230	11.0834496	8.9180340	15388 15335	11.0819660	10.0014837	105	9.9985163	16	
45	8.9180734	15177	11.0819266	8.9195675	15282	11.0804325	10.0014942	105	9.9985058	15	
46 47	8.9195911 8.9211034	15123	11.0804089 11.0788966	8.9210957 8.9226186	15229	11.0789043 11.0773814	10.0015047 10.0015152	105	9.9984953 9.9984848	14 13	
48	8.9226105	15071	11.0773895	8.9241363	15177	11.0758637	10.0015152	106	9.9984742	13	
II		15018		8.9256487	15124			106		11	
49 50	8.9241123 8.9256089	14966	11.0758877   11.0743911	8.9256487 8.9271560	15073	11.0743513 11.0728440	10.0015364 10.0015471	107	9.9984636 9.9984529	10	
51	8.9271003	14914 14863	11.0728997	8.9286581	15021 14971	11.0713419	10.0015578	107	9.9984422	9	
52	8.9285866	14812	11.0714134	8.9301552	14919	11.0698448	10.0015685	108	9.9984315	8	
53	8.9300678	14761	11.0699322 11.0684561	8.9316471	14869	11.0683529	10.0015793	108	9.9984207	7	
54	8.9315439	14711		8.9331340	14820	11.0668660	10.0015901	109	9.9984099	6	
55	8.9330150	14661	11.0669850	8.9346160	14769	11.0653840	10.0016010	109	9.9983990	5	
56 57	8.9344811 8.9359422	14611	11.0655189 11.0640578	8.9360929 8.9375650	14721	11.0639071 11.0624350	10.0016119 10.0016228	109	9.9983881 9.9983772	3	
58	8.9373983	14561	11.0626017	8.9390321	14671	11.0624550	10.0016226	109	9.9983663	2	
59	8.9388496	14513 14464	11.0611504	8.9404944	14623 14574	11.0595056	10.0016447	110 111	9.9983553	1	
60	8.9402960	17104	11.0597040	8.9419518	14074	11.0580482	10.0016558	'''	9.9983442	0	
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	17	
9.	94° 85°										

5°									174	<u></u>
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	<del>, ,</del>
0	8.9402960	14416	11.0597040	8.9419518	14526	11.0580482	10.0016558	110	9.9983442	60
1	8.9417376	14367	11.0582624	8.9434044	14479	11.0565956	10.0016668	112	9.9983332	59
3	8.9431743	14320	11.0568257	8.9448523	14431	11.0551477	10.0016780	iii	9.9983220	58
4	8.9446063 8.9460335	14272	11.0553937 11.0539665	8.9462954 8.9477338	14384	11.0537046 11.0522662	10.0016891 10.0017003	112	9.9983109	57 56
5	8.9474561	14226	11.0525439	8.9491676	14338	11.0508324	10.0017115	112	9.9982885	55
6	8.9488739	14178	11.0511261	8.9505967	14291	11.0494033	10.0017228	113	9.9982772	54
7	8.9502871	14132	11.0497129	8.9520211	14244	11.0479789	10.0017340	112	9.9982660	53
8	8.9516957	14086	11.0483043	8.9534410	14199	11.0465590	10.0017454	114	9.9982546	52
9	8.9530996	14039 13995	11.0469004	8.9548564	14154 14108	11.0451436	10.0017567	113	9.9982433	51
10 11	8.9544991	13949	11.0455009	8.9562672	14063	11.0437328	10.0017682	114	9.9982318	50
12	8.9558940 8.9572843	13903	11.0441060 11.0427157	8.9576735 8.9590754	14019	11.0423265 11.0409246	10.0017796 10.0017911	115	9.9982204 9.9982089	49
13		13860			13974			115		_
13	8.9586703 8.9600517	13814	11.0413297 11.0399483	8.9604728	13931	11.0395272 11.0381341	10.0018026	115	9.9981974	47 46
15	8.9614288	13771	11.0385712	8.9618659 8.9632545	13886	11.0367455	10.0018141 10.0018257	116	9.9981859 9.9981743	45
16	8.9628014	13726	11.0371986	8.9646388	13843	11.0353612	10.0018374	117	9.9981626	44
17	8.9641697	13683 13640	11.0358303	8.9660188	13800 13756	11.0339812	10.0018490	116 117	9.9981510	43
18	8.9655337	13597	11.0344663	8.9673944	12.756	11.0326056	10.0018607		9.9981393	42
19	8.9668934	13553	11.0331066	8.9687658	13714	11.0312342	10.0018725	118	9.9981275	41
20	8.9682487	13512	11.0317513	8.9701330	13672 13629	11.0298670	10.0018842	118	9.9981158	40
21 22	8.9695999	13469	11.0304001	8.9714959	13588	11.0285041	10.0018960	119	9.9981040	39
23	8.9709468 8.9722895	13427	11.0290532 11.0277105	8.9728547 8.9742092	13545	11.0271453 11.0257908	10.0019079 10.0019198	119	9.9980921 9.9980802	38 37
24	8.9736280	13385	11.0263720	8.9755597	13505	11.0244403	10.0019317	119	9.9980683	36
25	8.9749624	13344	11.0250376		13463	11.0230940	10.0019437	120	9.9980563	_
26	8.9762926	13302	11.0230376	8.9769060 8.9782483	13423	11.0230940	10.0019457	120	9.9980443	35 34
27	8.9776188	13262	11.0223812	8.9795865	13382	11.0204135	10.0019677	120	9.9980323	33
28	8.9789408	13220 13181	11.0210592	8.9809206	13341 13301	11.0190794	10.0019798	121 121	9.9980202	32
29 30	8.9802589	13140	11.0197411	8.9822507	13262	11.0177493	10.0019919	121	9.9980081	31
- 11		13100	11.0184271	8.9835769	13222	11.0164231	10.0020040	122	9.9979960	30
31	8.9828829	13060	11.0171171	8.9848991	13182	11.0151009	10.0020162	122	9.9979838	29
32		13021	11.0158111	8.9862173	13144	11.0137827	10.0020284	123	9.9979716	28
33 34		12981	11.0145090 11.0132109	8.9875317 8.9888421	13104	11.0124683 11.0111579	10.0020407 10.0020530	123	9.9979593 9.9979470	27 26
35		12943	11.0119166	8.9901487	13066	11.0098513	10.0020653	123	9.9979347	25
36		12903	11.0106263	8.9914514	13027	11.0085486	10.0020777	124	9.9979223	24
37	8.9906602	12865	11.0093398	8.9927503	12989	11.0072497	10.0020901	124	9.9979099	23
38		12827 12788	11.0080571	8.9940454	12951	11.0059546	10.0021025	124 125	9.9978975	22
39		12751	11.0067783	8.9953367	12913 12876	11.0046633	10.00211 <i>5</i> 0	125	9.9978850	21
40		12713	11.0055032	8.9966243	12838	11.0033757	10.0021275	126	9.9978725	20
41		12675	11.0042319	8.9979081 8.9991883	12802	11.002Ø919 11.0008117	10.0021401 10.0021527	126	9.9978599 9.9978473	19 18
II	-	12638			12764			126		-
44		12601	11.0017006	9.0004647	12728	10.9995353 10.9982625	10.0021653 10.0021780	127	9.9978347 9.9978220	17
44		12565	11.0004405 10.9991840	9.0017375 9.0030066	12691	10.9982625	10.0021780	127	9.9978093	16 15
46	9.0020687	12527 12492	10.9979313	9.0042721	12655	10.9957279	10.0022034	127 128	9.9977966	14
4		12452	10.9966821	9.0055340	12619 12584	10.9944660	10.0022162	128	9.9977838	13
4		12419	10.9954366	9.0067924	9.35	10.9932076	10.0022290	128	9.9977710	12
49		12383	10.9941947	9.0080471	12547	10.9919529	10.0022418	120	9.9977582	11
5		12348	10.9929564	9.0092984	12513 12477	10.9907016	10.0022547	130	9.9977453	10
5		12312	10.9917216	9.0105461	12442	10.9894539	10.0022677	129	9.9977323	9
5		12278	10.9904904 10.9892626	9.0117903 9.0130310	12407	10.9882097 10.9869690	10.0022806 10.0022936	130	9.9977194	8 7
5		12242	10.9880384	9.0142682	12372	10.9857318	10.0023067	131	9.9976933	6
5	_	12207	10.9868177	9.0155021	12339	10.9844979	10.0023197	130	9.9976803	<b> </b>
5		12173	10.9856004	9.0155021	12304	10.9832675	10.0023197	131	9.9976672	5
5	7   9.01 <i>5</i> 6135	12139 12104	10.9843865	9.0179594	12269	10.9820406	10.0023460	132	9.9976540	3
5	9.0168239	12070	10.9831761	9.0191831	12237 12202	10.9808169	10.0023592	132 132	9.9976408	2
5		12037	10.9819691	9.0204033	12169	10.9795967	10.0023724	133	9.9976276	1
11-			10.9807654	9.0216202	25.73	10.9783798	10.0023857		9.9976143	0
11.4	Co-sine.	Dif.	Secant.	Co-tang.	Dir.	Tangent.	Co-secant.	Dif.	Sine.	′
8	)5°								84	Įo.

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6°									17	3°
<u>'</u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	14
0	9.0192346	12002	10.9807654	9.0216202	12136	10.9783798	10.0023857	132	9.9976143	60
1	9.0204348	11970	10.9795652	9.0228338	12103	10.9771662	10.0023989	134	9.9976011	59
2	9.0216318	11936	10.9783682	9.0240441	12069	10.9759559 10.9747490	10.0024123 10.0024257	134	9.9975877	58 57
3 4	9.0228254 9.0240157	11903	10.9771746 10.9759843	9.0252510 9.0264548	12038	10.9735452	10.0024391	134	9.99 <b>75743</b> 9.99 <b>75</b> 609	56
5	9.0252027	11870	10.9747973	9.0276552	12004	10.9723448	10.0024525	134	9.9975475	55
6	9.0263865	11838	10.9736135	9.0288524	11972	10.9711476	10.0024660	135	9.9975340	54
		11804			11940			135		1-
7	9.0275669	11773	10.9724331	9.0300464	11909	10.9699536	10.0024795	136	9.9975205	53
8	9.0287442 9.0299182	11740	10.9712558	9.0312373	11876	10.9687627 10.9675751	10.0024931 10.0025067	136	9.9975069	52 51
10	9.0310890	11708	10.9700818	9.0324249 9.0336093	11844	10.9663907	10.0025203	136	9.99 <b>74933</b> 9.99 <b>74797</b>	50
ii	9.0322567	11677	10.9689110 10.9677433	9.0347906	11813	10.9652094	10.0025340	137	9.9974660	49
12	9.0334212	11645	10.9665788	9.0359688	11782	10.9640312	10.0025477	137	9.9974523	48
<u> </u>		11613			11751			137		<u> </u>
13	9.0345825	11582	10.9654175	9.0371439	11720	10.9628561	10.0025614	138	9.9974386	47
14	9.0357407	11551	10.9642593	9.0383159	11689	10.9616841	10.0025752	138	9.9974248	46
15	9.0368958	11519	10.9631042	9.0394848	11658	10.9605152 10.9593494	10.0025890 10.0026029	139	9.9974110 9.9973971	45
16 17	9.0380477 9.0391966	11489	10.9619523	9.0406506 9.0418134	11628	10.9581866	10.0026167	138	9.9973833	43
18	9.0403424	11458	10.9596576	9.0429731	11597	10.9570269	10.0026307	140	9.9973693	42
4 — I		11428			11568			139		
19	9.0414852	11397	10.9585148	9.0441299	11537	10.9558701	10.0026446	140	9.9973554	41
20	9.0426249	11368	10.9573751	9.0452836	11507	10.9547164	10.0026586	141	9.9973414	40
21 22	9.0437617	11337	10.9562383	9.0464343	11478	10.9535657 10.9524179	10.0026727	141	9.9973273 9.9973132	39 38
23	9.0448954 9.0460261	11307	10.9551046	9.0475821	11449	10.9524179	10.0026868	141	9.9972991	37
24	9.0471538	11277	10.9539739	9.0498689	11419	10.9501311	10.0027150	141	9.9972850	36
		11248			11389			142		
25	9.0482786	11219	10.9517214	9.0510078	11361	10.9489922	10.0027292	142	9.9972708	35
26 27	9.0494005 9.0505194	11189	10.9505995	9.0521439	11332	10.9478561	10.0027434	143	9.9972566 9.9972423	34 33
28	9.0516354	11160	10.9494806 10.9483646	9.0532771	11303	10.9467229 10.9455926	10.0027577 10.0027720	143	9.9972280	32
29	9.0527485	11131	10.9472515	9.0555349	11275	10.9444651	10.0027863	143	9.9972137	31
30	9.0538588	11103	10.9461412	9.0566595	11246	10.9433405	10.0023007	144	9.9971993	30
31	9.0549661	11073	10.9450339	0.0577010	11218	10.9422187	10.0028151	144	9.9971849	29
32	9.0560706	11045	10.9439294	9.0577813 9.0589002	11189	10.9422187	10.0028131	145	9.9971704	28
33	9.0571723	11017	10.9428277	9.0600164	11162	10.9399836	10.0028441	145	9.9971559	27
34	9.0582711	10988	10.9417289	9.0611297	11133	10.9388703	10.0028586	145	9.9971414	26
35	9.0593672	10961 10932	10.9406328	9.0622403	11106	10.9377597	10.0028732	146 146	9.9971268	25
36	9.0604604		10.9395396	9.0633482	11079	10.9366518	10.0028878		9.9971122	24
37	9.0615509	10905	10.9384491	9.0644533	11051	10.9355467	10.0029024	146	9.9970976	23
38	9.0626386	10877	10.9373614	9.0655556	11023	10.9344444	10.0029171	147	9.9970829	22
39	9.0637235	10849 10822	10.9362765	9.0666553	10997	10.9333447	10.0029318	147	9.9970682	21
40	9.0648057	10795	10.9351943	9.0677522	10969 10943	10.9322478	10.0029465	148	9.9970535	20
41	9.0658852	10767	10.9341148	9.0688465	10945	10.9311535	10.0029613	148	9.9970387	19
42	9.0669619	10741	10.9330381	9.0699381	10889	10.9300619	10.0029761	149	9.9970239	18
43	9.0680360		10.9319640	9.0710270		10.9289730	10.0029910		9.9970090	17
44	9.0691074	10714 10687	10.9308926	9.0721133	10863	10.9278867	10.0030059	149 149	9.9969941	16
45	9.0701761	10660	10.9298239	9.0731969	10836 10810	10.9268031	10.0030208	150	9.9969792	15
46	9.0712421	10634	10.9287579	9.0742779	10784	10.9257221	10.0030358	150	9.9969642	14
47	9.0723055	10608	10.9276945	9.0753563	10758	10.9246437	10.0030508	150	9.9969492	13
48	9.0733663	10581	10.9266337	9.0764321	10732	10.9235679	10.0030658	151	9.9969342	12
49	9.0744244	10555	10.9255756	9.0775053		10.9224947	10.0030809		9.9969191	11
50	9.0754799	10530	10.9245201	9.0785760	10707	10.9214240	10.0030960	151 152	9.9969040	10
51	9.0765329	10503	10.9234671	9.0796441	10681 10655	10.9203559	10.0031112	152	9.9968888	9
52	9.0775832	10478	10.9224168	9.0807096	10633	10.9192904	10.0031264	152	9.9968736	8
53	9.0786310	10452	10.9213690	9.0817726	10605	10.9182274	10.0031416	153	9.9968584	7
54	9.0796762	10427	10.9203238	9.0826331	10580	10.9171669	10.0031569	153	9.9968431	6
55	9.0807189	10401	10.9192811	9.0838911	10555	10.9161089	10.0031722	153	9.9968278	5
56	9.0817590	10376	10.9182410	9.0849466	10530	10.9150534	10.0031875	154	9.9968125	4
57	9.0827966	10351	10.9172034	9.0859996	10505	10.9140004	10.0032029	154	9.9967971	3
58	9.0838317	10326	10.9161683	9.0870501	10480	10.9129499	10.0032183	155	9.9967817	2
59 60	9.0848643 9.0858945	10302	10.9151357	9.0880981	10457	10.9119019	10.0032338	155	9.9967662 9.9967507	1
1-1			10.9141055	9.0891438		10.9108562	10.0032493			0
/	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif	Sine.	1
96	0								8	3°

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1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.0858945	10276	10.9141055	9.0891438	10431	10.9108562	10.0032493	155	9.9967507	60
1	9.0869221	10252	10.9130779	9.0901869	10408	10.9098131	10.0032648	156	9.9967352	55
2	9.0879473	10227	10.9120527	9.0912277	10383	10.9087723	10.0032804	156	9.9967196	
3	9.0889700	10203	10.9110300	9.0922660	10360	10.9077340	10.0032960	156	9.9967040	
4	9.0899903	10179	10.9100097	9.0933020 9.0943355	10335	10.9066980 10.9056645	10.0033116 10.0033273	157	9.996688 <u>4</u> 9.9966727	50
5	9.0910082 9.0920237	10155	10.9089918 10.9079763	9.0953667	10312	10.9046333	10.0033273	157	9.9966570	5
		10130			10288			158		1-
7	9.0930367	10107	10.9069633	9.0963955	10264	10.9036045	10.0033588	158	9.9966412	
8	9.0940474	10082	10.9059526	9.0974219	10241	10.9025781	10.0033746	158	9.9966254	
.9	9.0950556	10059	10.9049444	9.0984460	10218	10.9015540	10.0033904 10.0034063	159	9.9966096 9.9965937	
10 11	9.0960615 9.0970651	10036	10.9039385 10.9029349	9.0994678 9.1004872	10194	10.9005322 10.8995128	10.0034222	159	9.9965778	
12	9.0980662	10011	10.9019338	9.1015044	10172	10.8984956	10.0034331	159	9.9965619	
		9989	~		10148			160		-
13	9.0990651	9965	10.9009349	9.1025192	10125	10.8974808	10.0034541	160	9.9965459	4
14	9.1000616	9942	10.8999384	9.1035317	10103	10.8964683	10.0034701	161	9.9965299	44
15	9.1010558	9919	10.8989442	9.1045420	10080	10.8954580	10.0034862	161	9.9965138 9.9964977	
16	9.1020477	9896	10.8979523 10.8969627	9.1055500 9.1065557	10057	10.8944500	10.0035023 10.0035184	161	9.9964816	
18	9.1030373 9.1040246	9873	10.8959754	9.1075591	10034	10.3924409	10.0035345	161	9.9964655	
		9850			10013			162		-
19	9.1050096	9828	10.8949904	9.1085604	9990	10.8914396	10.0035507	163	9.9964493	
20	9.1059924	9805	10.8940076	9.1095594	9968	10.8904406	10.0035670	163	9.9964330 9.9964167	40
21 22	9.1069729	9783	10.8930271 10.8920488	9.1105562	9946	10.8894438 10.8884492	10.0035833 10.0035996	163	9.9964004	39
23	9.1079512 9.1089272	9760	10.8910728	9.1115508 9.1125431	9923	10.8874569	10.0036159	163	9.9963841	3
24	9.1099010	9738	10.8900990	9.1135333	9902	10.8864667	10.0036323	164	9.9963677	36
I —		9716			9880			164		1-
25	9.1108726	9694	10.8891274	9.1145213	9859	10.8854787	10.0036487	165	9.9963513 9.9963348	34
26 27	9.1118420	9672	10.8881580 10.8871908	9.1155072 9.1164909	9837	10.8844928 10.8835091	10.0036652	165	9.9963183	
28	9.1137742	9650	10.8862258	9.1174724	9815	10.8825276	10.0036982	165	9.9963018	
29	9.1147370	9628	10.8852630	9.1184518	9794	10.8815482	10.0037148	166	9.9962852	
30	9.1156977	9607	10.8843023	9.1194291	9773	10.8805709	10.0037314	166	9.9962686	30
		9585			9752			167	9.9962519	I-
31 32	9.1166562	9563	10.8833438 10.8823875	9.1204043	9730	10.8795957 10.8786227	10.0037481	167	9.9962352	25
33	9.1176125 9.1185667	9542 9521	10.8814333	9.1213773 9.1223482	9709	10.8776518	10.0037648 10.0037815	167	9.9962185	2
34	9.1195188		10.8804812	9.1233171	9689	10.8766829	10.0037983	168	9.9962017	26
35	9.1204688	9500	10.8795312	9.1242839	9668	10.8757161	10.0038151	168	9.9961849	2
36	9.1214167	9479	10.8785833	9.1252486	9647	10.8747514	10.0038319	168	9.9961681	24
07	9.1223624	9157	10 9776976	0.1960110	9626	10 9797999	10 0020400	169	9.9961512	23
37 38	9.1223624	9437	10.8776376 10.8766939	9.1262112 9.1271718	9606	10.8737888 10.8728282	10.0038488 10.0038657	169	9.9961343	29
39	9.1242477	9416	10.8757523	9.1281303	9585	10.8718697	10.0038826	169	9.9961174	
40	9.1251872	9395	10.8748128	9.1290868	9565	10.8709132	10.0038996	170	9.9961004	
41	9.1261246	9374	10.8738754	9.1300413	9545	10.8699587	10.0039166	170 171	9.9960834	19
42	9.1270600	9354	10.8729400	9.1309937	9524	10.8690063	10.0039337		9.9960663	18
43	9.1279934	9334	10.8720066	9.1319442	9505	10.8680558	10.0039508	171	9.9960492	17
44	9.1289247	9313	10.8710753	9.1328926	9484	10.8671074	10.0039679	171	9.9960321	ie
45	9.1298539	9292	10.8701461	9.1338391	9465	10.8661609	10.0039851	172	9.9960149	liè
46	9.1307812	9273 9252	10.8692188	9.1347835	9444 9425	10.8652165	10.0040023	172 173	9.9959977	14
47	9.1317064	9232	10.8682936	9.1357260	9425	10.8642740	10.0040196	173	9.9959804	13
48	9.1326297		10.8673703	9.1366665		10.8633335	10.0040369	173	9.9959631	19
49	9.1335509	9212	10.8664491	9.1376051	9386	10.8623949	10.0040542		9.9959458	11
50	9.1344702	9193	10.8655298	9.1385417	9366	10.8614583	10.0040716	174	9.9959284	id
51	9.1353375	9173	10.8646125	9.1394764	9347	10.8605236	10.0040889	173 175	9.9959111	1 9
52	9.1363028	9153	10.8636972	9.1404092	9328 9308	10.8595908	10.0041064	175	9.9958936	8
53	9.1372161	9133 9114	10.8627839	9.1413400	9289	10.8586600	10.0041239	175	9.9958761	1
54	9.1381275		10.8618725	9.1422689		10.8577311	10.0041414		9.9958586	1
55	9.1390370	9095	10.8609630	9.1431959	9270	10.8568041	10.0041589	175	9.9958411	-
56		9075	10.8600555	9.1441210	9251	10.8558790	10.0041765	176	9.9958235	4
57		9056	10.8591499	9.1450442	9232	10.8549558	10.0041941	176 177	9.9958059	1 5
58	9.1417537	9036 9018	10.8582463	9.1459655	9213 9194	10.8540345	10.0042118	177	9.9957882	2
59		8998	10.8573445	9.1468849	9176	10.8531151	10.0042295	177	9.9957705	1
60	9.1435553		10.8564447	9.1478025		10.8521975	10.0042472		9.9957528	_0
17	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	,
11-	<u> </u>									
∥ 9	70								89	ğ٥

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8° 171°  / Sine.   Dif.   Co-secant.   Tangent.   Dif.   Co-tangent.   Secant.   Dif.   Co-sine.   /										
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.1435553	8979	10.8564447	9.1478025	9157	10.8521975	10.0042472	178	9.9957528	60
1	9.1444532	8961	10.8555468	9.1487182	9139	10.8512818	10.0042650	178	9.9957350	59
2 3	9.1453493	8942	10.8546507 10.8537565	9.1496321 9.1505441	9120	10.8503679 10.8494559	10.0042828 10.0043007	179	9.9957172 9.9956993	58 57
4	9.1462435 9.1471358	8923	10.8528642	9.1514543	9102	10.8485457	10.0043185	178	9.9956815	56
5	9.1480262	8904	10.8519738	9.1523627	9084	10.8476373	10.0043365	180 179	9.9956635	55
6	9.1489148	8886	10.8510852	9.1532692	9065	10.8467308	10.0043544		9.9956456	54
7	9.1498015	8867	10.8501985	9.1541739	9047	10.8458261	10.0043724	180	9.9956276	53
8	9.1506864	8849	10.8493136	9.1550769	9030	10.8449231	10.0043905	181 180	9.9956095	52
9	9.1515694	8830 8813	10.8484306	9.1559780	9011 8993	10.8440220	10.0044085	181	9.9955915	51
10	9.1524507	8794	10.8475493	9.1568773	8975	10.8431227 10.8422252	10.0044266	182	9.9955734	50 49
11 12	9.1533301 9.1542076	8775	10.8466699 10.8457924	9.1577748 9.1586706	8958	10.8413294	10.0044448 10.00446 <b>3</b> 0	182	9.9955552	48
1		8758			8940			182		_
13	9.1550834	8740	10.8449166	9.1595646	8923	10.8404354 10.8395431	10.0044812 10.0044995	183	9.9955188 9.9955005	47
14 15	9.1559 <b>5</b> 74 9.1568296	8722	10.8440426 10.8431704	9.1604569 9.1613473	8904	10.8386527	10.0044993	183	9.9954822	46 45
16	9.1577000	8704	10.8423000	9.1622361	8888	10.8377639	10.0045361	183	9.9954639	44
17	9.1585686	8686 8668	10.8414314	9.1631231	8870 8852	10.8368739	10.0045545	184 184	9.9954455	43
18	9.1594354		10.8405646	9.1640083	8836	10.8359917	10.0045729	184	9.9954271	42
19	9.1603005	8651 8634	10.8396995	9.1648919	8818	10.8351081	10.0045913	185	9.9954087	41
20	9.1611639	8615	10.8388361	9.1657737	8801	10.8342263	10.0046098	185	9.9953902	40
21	9.1620254	8599	10.8379746	9.1666538	8784	10.8333462	10.0046283	186	9.9953717	39
22 23	9.1628853 -9.1637434	8581	10.8371147 10.8362566	9.1675322 9.1684089	8767	10.8324678 10.8315911	10.0046469 10.0046655	186	9.9953531 9.9953345	38
24	9.1645998	8564	10.8354002	9.1692839	8750	10.8307161	10.0046841	186	9.9953159	37 36
_		8546			8733			187		
. 20	9.1654544 9.1663074	8530	10.8345456 10.8336926	9.1701572 9.1710289	8717	10.8298428 10.8289711	10.0047028 10.0047215	187	9.9952972 9.9952785	35 34
26 27	9.1671586	8512	10.8328414	9.1718989	8700	10.8281011	10.0047403	188	9.9952597	33
28	9.1680081	8495 8478	10.8319919	9.1727672	8683 8666	10.8272328	10.0047591	188 188	9.9952409	32
29	9.1688559	8462	10.8311441	9.1736338	8650	10.8263662	10.0047779	188	9.9952221	31
30	9.1697021	8444	10.8302979	9.1744988	8634	10.8255012	10.0047967	189	9.9952033	30
31	9.1705465	8428	10.8294535	9.1753622	8617	10.8246378	10.0048156	190	9.9951844	29
32	9.1713893	8412	10.8286107	9.1762239	8601	10.8237761	10.0048346	190	9.9951654	28
33 34	9.1722305	8394	10.8277695	9.1770840	8585	10.8229160	10.0048536	190	9.9951464	27
35	9.1730699 9.1739077	8378	10.8269301 10.8260923	9.1779425 9.1787993	8568	10.8220575 10.8212007	10.0048726 10.0048916	190	9.9951274 9.9951084	26 25
36	9.1747439	8362	10.8252561	9.1796546	8553	10.8203454	10.0049107	191	9.9950893	24
37		8345			8536	10 0104010	10.0049298	191		
38	9.1755784 9.1764112	8328	10.8244216 10.8235888	9.1805082 9.1813602	8520	10.8194918 10.8186398	10.0049298	192	9.9950702 9.9950510	23 22
39	9.1772425	8313	10.8227575	9.1822106	8504	10.8177894	10.0049682	192	9.9950318	21
40	9.1780721	8296 8280	10.8219279	9.1830595	8489 8473	10.8169405	10.0049874	192 193	9.9950126	20
41	9.1789001	8264	10.8210999	9.1839068	8457	10.3160932	10.0050067	193	9.9949933	19
42	9.1797265	8247	10.8202735	9.1847525	8441	10.8152475	10.0050260	194	9.9949740	18
43	9.1805512	8232	10.8194488	9.1855966	8426	10.8144034	19.0050454	194	9.9949546	17
44	9.1813744	8216	10.8186256	9.1864392	8410	10.8135608	10.0050648	194	9.9949352	16
45 46	9.1821960 9.1830160	8200	10.8178040 10.8169840	9.1872802 9.1881196	8394	10.8127198 10.8118804	10.0050842 10.0051036	194	9.9949158 9.9948964	15
47	9.1838344	8184	10.8161656	9.1889575	8379	10.8110425	10.0051231	195	9.9948769	14 13
48	9.1846512	8168	10.8153488	9.1897939	8364	10.8102061	10.0051427	196	9.9948573	12
49	9.1854665	8153	10.8145335	9.1906287	8348	10.8093713	10.0051623	196	9.9948377	11
50	9.1862802	8137 8121	10.8137198	9.1914621	8334 8318	10.8085379	10.0051819	196	9.9948181	10
51	9.1870923	8106	10.8129077	9.1922939	8302	10.8077061	10.0052015	196 197	9.9947985	9
52	9.1879029	8091	10.8120971	9.1931241	8238	10.8068759	10.0052212	197	9.9947783	8
53 54	9.1887120 9.1895195	8075	10.8112880 10.8104805	9.1939529 9.1947802	8273	10.8060471 10.8052198	10.0052409 10.0052607	198	9.9947591	7
1		8059			8257			198		
55	9.1903254	8045	10.8096746	9.1956059	8243	10.8043941	10.0052805	198	9.9947195	5
56 57	9.1911299 9.1919328	8029	10.8088701 10.8080672	9.1964302 9.1972530	8228	10.8035698 10.8027470	10.0053003 10.0053202	199	9.9946997 9.9946798	4 3
58	9.1919326	8014	10.8072658	9.1980743	8213	10.8019257	10.0053401	199	9.9946599	2
59	9.1935341	7999 7983	10.8064659	9.1983941	8198 8184	10.8011059	10.0053601	200	9.9946399	ĩ
60	9.1943324	1303	10.8056676	9.1997125	0104	10.8002875	10.0053801	200	9.9946199	Ö
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
98	98° 81°									
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	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.1943324	7969	10.8056676	9.1997125	8169	10.8002875	10.0053801	200	9.9946199	60
1	9.1951293	7954	10.8048707	9.2005294	8155	10.7994706	10.0054001	201	9.9945999	59
2	9.1959247	7939	10.8040753	9.2013449	8139	10.7986551 10.7978412	10.0054202	201	9.9945798 9.9945597	58 57
3 4	9.1967186 9.1975110	7924	10.8032814 10.8024890	9.2021588 9.2029714	8126	10.7970286	10.0054403 10.0054604	201	9.9945396	56
5	9.1983019	7909	10.8016981	9.2037825	8111	10.7962175	10.0054806	202	9.9945194	55
6	9.1990913	7894	10.8009087	9.2045922	8097	10.7954078	10.0055008	202	9.9944992	54
7		7880	10.8001207	9.2054004	8082	10.7945996	10.0055211	203	9.9944789	53
8	9.1998793 9.2006658	7865	10.3001207	9.2062072	8068	10.7937928	10.0055413	202	9.9944587	52
9	9.2014509	7851	10.7985491	9.2070126	8054	10.7929874	10.0055617	204	9.9944383	51
10	9.2022345	7836	10.7977655	9.2078165	8039 8026	10.7921835	10.0055820	203 205	9.9944180	50
11	9.2030167	7822 7807	10.7969833	9.2086191	8012	10.7913809	10.0056025	204	9.9943975	49
12	9.2037974		10.7962026	9.2094203		10.7905797	10.0056229	205	9.9943771	48
13	9.2045766	7792	10.7954234	9.2102200	7997	10.7897800	10.0056434		9.9943566	47
14	9:2053545	7779	10.7946455	9.2110184	7984 7969	10.7889816	10.0056639	205 205	9.9943361	46
15	9.2061309	7764 7750	10.7938691	9.2118153	7956	10.7881847	10.0056844	206	9.9943156	45
16	9.2069059	7736	10.7930941	9.2126109	7942	10.7873891	10.0057050	207	9.9942950	44
17	9.2076795	7721	10.7923205 10.7915484	9.2134051	7929	10.7865949 10.7858020	10.0057257 10.0057463	206	9.9942743 9.9942537	43 42
18	9.2084516	7708		9.2141980	7914			207		
19	9.2092224	7693	10.7907776	9.2149894	7901	10.7850106	10.0057670	208	9.9942330	41
20	9.2099917	7680	10.7900083	9.2157795	7888	10.7842205	10.0057878	208	9.9942122	40
21	9.2107597	7666	10.7892403 10.7884737	9.2165683	7873	10.7834317 10.7826444	10.0058086 10.0058294	208	9.9941914 9.9941706	39 38
22 23	9.2115263 9.2122914	7651	10.7877086	9.2173556 9.2181417	7861	10.7818583	10.0058294	208	9.9941498	37
24	9.2130552	7638	10.7869448	9.2189264	7847	10.7810736	10.0058711	209	9.9941289	36
-		7624			7833			210		
25 26	9.2138176 9.2145787	7611	10.7861824 10.7854213	9.2197097 9.2204917	7820	10.7802903 10.7795083	10.0058921 10.0059130	209	9.9941079 9.9940870	35 34
20	9.2145787	7597	10.7846616	9.2204917	7807	10.7787276	10.0059341	211	9.9940659	33
28	9.2160967	7583	10.7839033	9.2220518	7794	10.7779482	10.0059551	210	9.9940449	32
29	9.2168536	7569	10.7831464	9,2228298	7780	10.7771702	10.0059762	211 211	9.9940238	31
30	9.2176092	7556	10.7823908	9.2236065	7767	10.7763935	10.0059973		9.9940027	30
31	9.2183635	7543	10.7816365	9.2243819	7754	10.7756181	10.0060185	212	9.9939815	29
32	9.2191164	7529	10.7808836	9.2251561	7742	10.7748439	10.0060397	212	9.9939603	28
33	9.2198680	7516	10.7801320	9.2259289	7728 7715	10.7740711	10.0060609	212 213	9.9939391	27
34	9.2206182	7502 7489	10.7793818	9.2267004	7702	10.7732996	10.0060822	213	9.9939178	26
35	9.2213671	7476	10.7786329	9.2274706	7689	10.7725294	10.0061035	213	9.9938965	25
36	9.2221147	7462	10.7778853	9.2282395	7676	10.7717605	10.0061248	214	9.9938752	24
37	9.2228609	7450	10.7771391	9.2290071	7664	10.7709929	10.0061462	214	9.9938538	23
38	9.2236059	7436	10.7763941	9.2297735	7651	10.7702265	10.0061676	215	9.9938324	22
39	9.2243495	7423	10.7756505	9.2305386	7638	10.7694614	10.0061891	215	9.9938109	21
40	9.2250918	7410	10.7749082	9.2313024	7626	10.7686976	10.0062106	215	9.9937894	20
41 42	9.2258328 9.2265725	7397	10.7741672 10.7734275	9.2320650 9.2328262	7612	10.7679350 10.7671738	10.0062321 10.0062537	216	9.9937679 9.9937463	19
0 —		7385			7601			216		18
43	9.2273110	7371	10.7726890	9.2335863	7588	10.7664137	10,0062753	217	9.9937247	17
44	9.2280481	7358	10.7719519	9.2343451	7575	10.7656549 10.7648974	10.0062970	217	9.9937030 9.9936813	16
45 46	9.2287839 9.2295185	7346	10.7712161 10.7704815	9.2351026 9.2358589	7563	10.7648974	10.0063187	217	9.9936596	15 14
47	9.2302518	7333	10.7697482	9.2366139	7550	10.7633861	10.0063622	218	9.9936378	13
48	9.2309838	7320	10.7690162	9.2373678	7539	10.7626322	10.0063840	218	9.9936160	12
49	9.2317145	7307	10.7682855	9.2381203	7525	10.7618797	10.0064058	218	9.9935942	11
50	9.2317145	7295	10.7675560	9.2381203	7514	10.7611283	10.0064277	219	9.9935723	10
51	9.2331722	7282	10.7668278	9.2396218	7501	10.7603782	10.0064496	219	9.9935504	9
52	9.2338992	7270 7257	10.7661008	9.2403708	7490 7477	10.7596292	10.0064715	219 220	9.9935285	8
53	9.2346249	7245	10.7653751	9.2411185	7465	10.7588815	10.0064935	221	9.9935065	7
54	9.2353494	7232	10.7646506	9.2418650	7453	10.7581350	10.0065156	220	9.9934844	6
55	9.2360726		10.7639274	9.2426103	7440	10.7573897	10.0065376	221	9.9934624	5
56	9.2367946	7220 7207	10.7632054	9.2433543	7429	10.7566457	10.0065597	221	9.9934403	4
57	9.2375153	7196	10.7624847	9.2440972	7417	10.7559028	10.0065819	222	9.9934181	4 3 2
58	9.2382349	7183	10.7617651	9.2448389	7405	10.7551611	10.0066041	222	9.9933959	2
59 60	9.2389532 9.2396702	7170	10.7610468 10.7603298	9.2455794 9.2463188	7394	10.7544206 10.7536812	10.0066263	222	9.9933737	0
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	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	
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1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	′
0	9.2396702	7159	10.7603298	9.2463188	7381	10.7536812	10.0066485	223	9.9933515	60
	9.2403861	7146	10.7596139	9.2470569	7370	10.7529431	10.0066708	224	9.9933292 9.9933068	59 58
3	9.2411007 9.2418141	7146 7154	10.7588993 10.7581859	9.2477939 9.2485297	7358	10.7522061 10.7514703	10.0066932 10.0067155	223	9.9932845	57
4	9.2425264	7123	10.7574736	9.2492643	7346	10.7507357	10.0067379	224	9.9932621	56
5	9.2432374	7110	10.7567626	9.2499978	7335	10.7500022	10.0067604	225 225	9.9932396	55
6	9.2439472	7098	10.7560528	9.2507301	7323	10.7492699	10.0067829	225	9.9932171	54
7	9.2446558	7086	10.7553442	9.2514612	7311	10.7485388	10.0068054		9.9931946	53
8	9.2453632	7074	10.7546368	9.2521912	7300 7288	10.7478088	10.0068280	226 226	9.9931720	522
9	9.2460695	7063 7061	10.7539305	9.2529200	7277	10.7470800	10.0068506	226	9.9931494	51
10 11	9.2467746 9.2474784	7038	10.7532254 10.7525216	9.2536477 9.2543743	7266	10.7463523	10.0068732 10.0068959	227	9.9931268 9.9931041	50 49
12	9.2481811	7027	10.7518189	9.2550997	7254	10.7449003	10.0069186	227	9.9930814	48
		7016			7243			227		_
13 14	9.2488827 9.2495830	7003	10.7511173 10.7504170	9.2558240 9.2565472	7232	10.7441760 10.7434528	10.0069413 10.0069641	228	9.9930587 9.9930359	47 46
15	9.2502822	6992	10.7497178	9.2572692	7220	10.7427308	10.0069869	228	9.9930131	45
16	9.2509803	6981	10.7490197	9.2579901	7209	10.7420099	10.0070098	229 229	9.9929902	44
17	9.2516772	6969 6957	10.7483228	9.2587099	7198 7186	10.7412901	10.0070327	229	9.9929673	43
18	9.2523729		10.7476271	9.2594285		10.7405715	10.0070556	230	9.9929444	42
19	9.2530675	6946	10.7469325	9.2601461	7176	10.7398539	10.0070786	230	9.9929214	41
20	9.2537609	6934 6923	10.7462391	9.2608625	7164 7154	10.7391375	10.0071016	231	9.9928984	40
21	9.2544532	6912	10.7455468	9.2615779	7142	10.7384221	10.0071247	021	9.9928753	39
22 23	9.2551444 9.2558344	6900	10.7448556 10.7441656	9.2622921 9.2630053	7132	10.7377079 10.7369947	10.0071478 10.0071709	201	9.9928522 9.9928291	38 37
24	9.2565233	6889	10.7434767	9.2637173	7120	10.7362827	10.0071941	232	9.9928059	36
25		6877	10.7427890		7110		10.0072173	232	9.9927827	35
26	9.2572110 9.2578977	6867	10.7421023	9.2644283 9.2651382	7099	10.7355717 10.7348618	10.0072173	232	9.9927595	34
27	9.2585832	6855	10.7414168	9.2658470	7088	10.7341530	10.0072638	200	9.9927362	33
28	9.2592676	6844 6833	10.7407324	9.2665547	7077 7066	10.7334453	10.0072871	233	9.9927129	32
29	9.2599509	6821	10.7400491	9.2672613	7056	10.7327387		234	9.9926895	31
30	9.2606330	6811	10.7393670	9.2679669	7045	10.7320331	10.0073339	234	9.9926661	30
31	9.2613141	6800	10.7386859	9.2686714	7035	10.7313286	10.0073573	935	9.9926427	29
32	9.2619941	6788	10.7380059	9.2693749	7023	10.7306251	10.0073808	925	9.9926192	28
33 34	9.2626729 9.2633507	6778	10.7373271 10.7366493	9.2700772 9.2707786	7014	10.7299228 10.7292214	10.0074043 10.0074278	235	9.9925957 9.9925722	27 26
35	9.2640274	6767	10.7359726	9.2714788	7002	10.7285212	10.0074514	230	9.9925486	25
36	9.2647030	6756	10.7352970	9.2721780	6992	10.7278220	10.0074750	236	9.9925250	24
37	9.2653775	6745	10.7346225	9.2728762	6982	10.7271238	10.0074987	237	9.9925013	23
38	9.2660509	6734	10.7339491	9.2735733	6971	10.7264267	10.0075224	237	9.9924776	22
39	9.2667232	6723 6713	10.7332768	9.2742694	6961 6950	10.7257306	10.0075461	237 238	9.9924539	21
40	9.2673945	6702	10.7326055	9.2749644	6940	10.7250356	10.0075699	238	9.9924301	20
41	9.2680647 9.2687338	6691	10.7319353 10.7312662	9.2756584	6930	10.7243416 10.7236486	10.0075937	239	9.9924063 9.9923824	19
42		6681		9.2763514	6920		10.0076176	239		18
43	9.2694019	6670	10.7305981	9.2770434	6909	10.7229566	10.0076415	239	9.9923585	17
44 45	9.2700689 9.2707348	6659	10.7299311 10.7292652	9. <b>277</b> 7343 9. <b>27</b> 84242	6899	10.7222657 10.7215758	10.0076654 10.0076894	240	9.9923346 9.9923106	16 15
46	9.2713997	6649	10.7286003	9.2791131	6889	10.7213756	10.0077134	240	9.9922866	14
47	9.2720635	6638 6628	10.7279365	9.2798009	6878 6869	10.7201991	10.0077374	240 241	9.9922626	13
48	9.2727263	6617	10.7272737	9.2804878	6858	10.7195122	10.0077615	241	9.9922385	12
49	9.2733880	6607	10.7266120	9.2811736	6849	10.7188264	10.0077856	241	9.9922144	11
50	9.2740487	6596	10.7259513	9.2818585	6838	10.7181415	10.0078098	242	9.9921902	10
51	9.2747083	6586	10.7252917	9.2825423	6828	10.7174577	10.0078340	242	9.9921660	9
52 53	9.2753669 9.2760245	6576	10.7246331 10.7239755	9.2832251 9.2839070	6819	10.7167749	10.0078582 10.0078825	243	9.9921418 9.9921175	8 7
54	9.2766811	6566	10.7233189	9.2845878	6808	10.7154122	10.0079068	243	9.9920932	6
_	9.2773366	6555			6799			243		
55 56	9.2779911	6545	10.7226634 10.7220089	9.2852677 9.2859466	6789	10.7147323 10.7140534	10.0079311 10.0079555	244	9.9920689 9.9920445	5
57	9.2786445	6534	10.7213555	9.2866245	6779	10.7133755	10.0079799	244	9.9920201	3
58	9.2792970	6525 6514	10.7207030	9.2873014	6769 6759	10.7126986	10.0080044	245 245	9.9919956	2
59	9.2799484	6504	10.7200516	9.2879773	6750	10.7120227	10.0080289	245	9.9919711	1
60	9.2805988		10.7194012	9.2886523		10.7113477	10.0080534		9.9919466	0
'	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	1
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		l Die			Die		g	nie		
	Sinc.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	
0	9.2805988 9.2812483	6495	10.7194012 10.7187517	9.2886523 9.2893263	6740	10.7113477 10.7106737	10.0080534 10.0080780	246	9.9919466 9.9919220	<b>60</b> <b>59</b>
2	9.2818967	6484	10.7181033	9.2899993	6730	10.7100007	10.0081026	246 247	9.9918974	58
3	9.2825441	6474 6464	10.7174559	9.2906713	6720 6711	10.7093287	10.0081273	247	9.9918727	57
2	9.2831905	6454	10.7168095	9.2913424 9.2920126	6702	10.7086576 10.7079874	10.0081520	247	9.9918480	56 55
6	9.2838359 9.2844803	6444	10.7161641 10.7155197	9.2926817	6691	10.7073183	10.0081767 10.0082014	247	9.9918233 9.9917986	54
7	9.2851237	6434	10.7148763	9.2933500	6683			249		53
8	9.2857661	6424	10.7148763	9.2933300	6672	10.7066 <b>5</b> 00 10.7059828	10.0082263 10.0082511	248	9.9917737 9.9917489	52
9	9.2864076	6415 6404	10.7135924	9.2946836	6664	10.7053164	10.0082760	249	9.9917240	51
10	9.2870480	6395	10.7129520	9.2953489	6653 6645	10.7046511	10.0083009	249 250	9.9916991	50
11 12	9.2876875 9.2883260	6385	10.7123125 10.7116740	9.2960134 9.2966769	6635	10.7039866 10.7033231	10.0083259 10.0083508	249	9.9916741 9.9916492	49 48
_		6376			6626			251		
13 14	9.2889636 9.2896001	6365	10.7110364 10.7103999	9.29 <b>73</b> 395 9.2980011	6616	10.7026605 10.7019989	10.0083759 10.0084610	251	9.9916241 9.9915990	47 46
15	9.2902357	6356	10.7097643	9.2986618	6607	10.7013382	10.0084261	251	9.9915739	45
16	9.2908704	6347 6336	10.7091296	9.2993216	6598 6588	10.7006784	10.0084512	251 252	9.9915488	44
17	9.2915040	6327	10.7084960	9.2999804	6579	10.7000196	10.0084764	252	9.9915236	43
18	9.2921367	6318	10.7078633	9.3006383	6571	10.6993617	10.0085016	253	9.9914984	42
19	9.2927685	6308	10.7072315	9.3012954	6560	10.6987046	10.0085269	253	9.9914731	41
20 21	9.2933993 9.2940291	6298	10.7066007 10.7059709	9.3019514 9.3026066	6552	10.6980486 10.6973934	10.0085 <i>5</i> 22 10.0085 <i>7</i> 75	253	9.9914478 9.9914225	40 39
22	9.2946580	6289	10.7053420	9.3032609	6543	10.6967391	10.0086029	254	9.9913971	38
23	9.2952859	6279 6270	10.7047141	9.3039143	6534 6524	10.6960857	10.0086283	254 255	9.9913717	37
24	9.2959129	6261	10.7040871	9.3045667	6516	10.6954333	10.0086538	255	9.9913462	36
25	9.2965390	6251	10.7034610	9.3052183	6506	10.6947817	10.0086793	255	9.9913207	35
26	9.2971641	6242	10.7028359	9.3058689	6498	10.6941311	10.0087048	256	9.9912952	34
27 28	9.2977883 9.2984116	6233	10.7022117	9.3065187	6488	10.6934813	10.0087304	256	9.9912696 9.9912440	33 32
29	9.2990339	6223	10.7015884 10.7009661	9.3071675 9.3078155	6480	10.6928325 10.6921845	10.0087560 10.0087816	256	9.9912440	31
30	9.2996553	6214	10.7003447	9.3084626	6471	10.6915374	10.0088073	257	9.9911927	30
31	9.3002758	6205	10.6997242	9.3091088	6462	10.6908912	10.0088330	257	9.9911670	29
32	9.3008953	6195 6187	10.6991047	9.3097541	6453 6444	10.6902459	10.0088588	258 258	9.9911412	28
33	9.3015140	6177	10.6984860	9.3103985	6436	10.6896015	10.0088846	258	9.9911154	27
34 35	9.3021317 9.3027485	6168	10.6978683 10.6972515	9.3110421 9.3116848	6427	10.6889579	10.0089104 10.0089363	259	9.9910896 9.9910637	26 25
36	9.3033644	6159	10.6966356	9.3123266	6418	10.6883152 10.6876734	10.0089563	259	9.9910378	24
37	9.3039794	6150		9.3129675	6409			259	9.9910119	23
38	9.3039794	6140	10.6960206 10.6954066	9.3129075	6401	10.6870325 10.6863924	10.0089881 10.0090141	260	9.9909859	22
39	9.3052066	6132 6123	10.6947934	9.3142468	6392 6383	10.6857532	10.0090402	261 260	9.9909598	21
40	9.3058189	6114	10.6941811	9.3148851	6375	10.6851149	10.0090662	261	9.9909338	20
41	9.3064303 9.3070407	6104	10.6935697 10.6929593	9.3155226 9.3161592	6366	10.6844774 10.6838408	10.0090923 10.0091185	262	9.9909077 9.9908815	19 18
1 —		6096			6358			262		_
43 44	9.3076503 9.3082590	6087	10.6923497 10.6917410	9.3167950 9.3174299	6349	10.6832050	10.0091447 10.0091709	262	9.9908553 9.9908291	17 16
45	9.3088668	6078 6069	10.6917410	9.3180640	6341	10.6825701 10.6819360	10.0091709	262	9.9908291	15
46	9.3094737	6061	10.6905263	9.3186972	6332 6323	10.6813028	10.0092234	263 264	9.9907766	14
47	9.3100798	6051	10.6899202	9.3193295	6316	10.6806705	10.0092498	263	9.9907502	13
48	9.3106849	6043	10.6893151	9.3199611	6307	10.6800389	10.0092761	265	9.9907239	12
49	9.3112892	6034	10.6887108	9.3205918	6298	10.6794082	10.0093026	264	9.9906974	11
50 51	9.3118926 9.3124951	6025	10.6881074 10.6875049	9.3212216 9.3218506	6290	10.6787784 10.6781494	10.0093290 10.0093555	265	9.9906710 9.9906445	10 .9
52	9.3130968	6017 6008	10.6869032	9.3224788	6282	10.6775212	10.0093820	265 266	9.9906180	8
53	9.3136976	5999	10.6863024	9.3231061	6273 6266	10.6763939	10.0094086	266	9.9905914	7
54	9.3142975	5990	10.6857025	9.3237327	6257	10.6762673	10.0094352	266	9.9905648	6
55	9.3148965	5982	10.6851035	9.3243584	6248	10.6756416	10.0094618	267	9.9905382	5
56	9.3154947	5974	10.6845053	9.3249832	6241	10.6750168	10.0094885	267	9.9905115	4
57 58	9.3160921 9.3166885	5964	10.6839079 10.6833115	9.3256073 9.3262305	6232	10.6743927 10.6737695	10.0095152 10.0095420	268	9.9904848 9.9904580	3 2
59	9.3172841	5956 5948	10.6827159	9.3268529	6224	10.6731471	10.0095688	268	9.9904312	2
60	9.3178789	U3'40	10.6821211	9.3274745	6216	10.6725255	10.0095956	268	9.9904044	0
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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10	1,									7 <b>8°</b>

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15	<u> </u>								16	37°
<u>'</u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	.Dif.	Co-sine.	1
0	9.3178789	5939	10.6821211	9.3274745	6208	10.6725255	10.0095956	269	9.9904044	60
1 .1	9.3184728	5931	10.6815272	9.3280953	6200	10.6719047	10.0096225	269	9.9903775	59
2	9.3190659	5922	10.6809341	9.3287153	6192	10.6712847	10.0096494	269	9.9903506	58
3 4	9.3196581	5914	10.6803419	9.3293345	6183	10.6706655 10.6700472	10.0096763 10.0097033	270	9.9903237 9.9902967	57 56
3	9.3202495 9.3208400	5905	10.6797505 10.6791600	9.3299528 9.3305704	6176	10.6694296	10.0097033	270	9.9902907	55
6	9.3214297	5897	10.6785703	9.3311872	6168	10.6688128	10.0097574	271	9.9902426	54
		5689			6159			271		I—
7	9.3220186	5880	10.6779814	9.3318031	6152	10.6681969	10.0097845	272	9.9902155	53
8	9.3226066	5872	10.6773934	9.3324183	6144	10.6675817	10.0098117	271	9.9901883	52
10	9.3231938	5864	10.6768062	9.3330327	6136	10.6669673	10.0098388 10.0098661	273	9.9901612 9.9901339	51 50
ii	9.3237802 9.3243657	5855	10.6762198 10.6756343	9.3336463 9.3342591	6128	10.6663537 10.6657409	10.0098933	272	9.9901067	49
12	9.3249505	5848	10.6750495	9.3348711	6120	10.6651289	10.0099206	273	9.9900794	48
		5839			6112			273		
13	9.3255344	5830	10.6744656	9.3354823	6104	10.6645177	10.0099479	274	9.9900521	47
14	9.3261174	5823	10.6738826	9.3360927	6097	10.6639073	10.0099753	274	9.9900247	46
15 16	9.3266997	5814	10.6733003	9.3367024	6089	10.6632976 10.6626887	10.0100027 10.0100302	275	9.9899973 9.9899698	45
17	9.3272811 9.3278617	5806	10.6727189 10.6721383	9.3373113 9.3379194	6081	10.6620306	10.0100302	275	9.9899423	43
18	9.3284416	5799	10.6715584	9.3385267	6073	10.6614733	10.0100377	275	9.9899148	42
l		5790			6066			275		_
19	9.3290206	5782	10.6709794	9.3391333	6058	10.6608667	10.0101127	276	9.9898873	41
20	9.3295988	5773	10.6704012	9.3397391	6050	10.6602609	10.0101403	277	9.9898597	40
21 22	9.3301761 9.3307527	5766	10.6698239	9.3403441	6043	10.6596559 10.6590516	10.0101680 10.0101957	277	9.9898320 9.9898043	39 38
23	9.3313285	5758	10.6692473 10.6686715	9.3409484	6035	10.6594481	10.0101957	277	9.9897766	37
24	9.3319035	5750	10.6680965	9.3415519 9.3421546	6027	10.6578454	10.0102234	277	9.9897489	36
		5742			6020			278		
25	9.3324777	5734	10.6675223	9.3427566	6012	10.6572434	19.0102789	279	9.9897211	35
26	9.3330511	5726	10.6669489	9.3433578	6005	10.6566422	10.0103068	278	9.9896932	34
27 28	9.3336237	5718	10.6663763	9.3439583	5997	10.6560417	10.0103346	280	9.9896654	33
29	9.3341955 9.3347665	5710	10.6658045 10.6652335	9.3445580	5990	10.6554420 10.6548430	10.0103626 10.0103905	279	9.9896374 9.9896095	32
30	9.3353368	5703	10.6646632	9.3451570 9.3457552	5982	10.6542448	10.0103905	280	9.9895815	31 30
		5694			5975			280		<u> </u>
31 32	9.3359062	5687	10.6640938	9.3463527	5967	10.6536473	10.0104465	281	9.9895535	29
33	9.3364749 9.3370428	5679	10.6635251	9.3469494	5960	10.6530506	10.0104746	281	9.989 <b>5254</b> 9.989 <b>4973</b>	28
34	9.3376099	5671	10.6629572 10.6623901	9.3475454	5953	10.6524546 10.6518593	10.0105027 10.0105308	281	9.9894692	27 26
35	9.3381762	5663	10.6618238	9.3481407 9.3487352	5945	10.6512648	10.0105590	282	9.9894410	25
36	9.3387418	5656	10.6612582	9.3493290	5938	10.6506710	10.0105872	282	9.9894128	24
II I		5647			5930			283		
37 38	9.3393065 9.3398706	5641	10.6606935	9.3499220	5923	10.6500780	10.0106155	283	9.989 <b>38</b> 45 9.989 <b>35</b> 62	23
39	9.3404338	5632	10.6601294	9.3505143	5916	10.6494857 10.6488941	10.0106438 10.0106721	283	9.9893279	22
40	9.3409963	5625	10.6595662 10.6590037	9.3511059 9.3516968	5909	10.6483032	10.0107005	284	9.9899995	21 20
41	9.3415580	5617	10.6584420	9.3522869	5901	10.6477131	10.0107289	284	9.9892711	19
42	9.3421190	5610	10.6578810	9.3528763	5894	10.6471237	10.0107573	284	9.9892427	18
43		5602			5887			285		
44	9.3426792 9.3432386	5594	10.6573208	9.3534650	5880	10.6465350 10.6459470	10.0107858 10.0108144	286	9.9892142 9.9891856	17
45	9.3437973	5587	10.6567614 10.6562027	9.3540530 9.3546402	5872	10.6453598	10.0108144	285	9.9891571	16 15
46	9.3443552	5579	10.6556448	9.3552267	5865	10.6447733	10.0108715	286	9.9891285	14
47	9.3449124	5572	10.6550876	9.3558126	5859	10.6441874	10.0109002	287 287	9.9890998	13
48	9.3454688	5564	10.6545312	9.3563977	5851	10.6436023	10.0109289		9.9890711	12
49	9.3460245	5557			5844	10.6430179	10.0109576	287	9.9890424	_
50	9.3465794	5549	10.6539755 10.6534206	9.3569821 9.3575658	5837	10.6424342	10.0109863	287	9.9890137	11 10
51	9.3471336	5542	10.6528664	9.3581487	5829	10.6418513	10.0103003	288	9.9889849	9
52	9.3471336 9.3476870	5534	10.6523130	9.3587310	5823	10.6412690	10.0110440	289	9.9889560	8
53	9.3432397	5527 5520	10.6517603	9.3593126	5816 5809	10.6406874	10.0110729	289 289	9.9889271	7
54	9.3487917		10.6512083	9.3598935		10.6401065	10.0111018		9.9888982	6
55	9.3493429	5512	10.6506571	9.3604736	5801	10.6395264	10.0111307	289	9.9888693	5
56	9.3498934	5505	10.6501066	9.3610531	5795	10.6389469	10.0111597	290	9.9888403	4
57	9.3504432	5498	10.6495568	9.3616319	5788	10.6383681	10.0111887	290	9.9888113	3
58	9.3509922	5490 5483	10.6490078	9.3622100	5781 5774	10.6377900	10.0112178	291 291	9.9887822	2
59	9.3515405	5475	10.6484595	9.3627874	5767	10.6372126	10.0112469	292	9.9887531	1
60	9.3520880	J. 10	10.6479120	9.3633641	2,01	10.6366359	10.0112761	202	9.9887239	0
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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1:	3º.								10	6°
	Sine.	,Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dic	Co-sine.	1
0	9.3520880	5469	10.6479120	9.3633641	5760	10.6366359	10.0112761	292	9.9887239	60
1	9.3526349	5461	10.6473651	9.3639401	5754	10.6360599	10.0113053	292	9.9886947	59
2 3	9.3531810 9.3537264	5454	10.6468190 10.6462736	9.3645155 9.3650901	5746	10.6354845 10.6349099	10.0113345 10.0113637	292	9.9886655 9.9886363	58 57
4	9.3542710	5446	10.6457290	9.3656641	5740	10.6343359	10.0113930	293	9.9886070	56
5	9.3548150	5440	10.6451850	9.3662374	5733	10.6337626	10.0114224	294 294	9.9885776	55
6	9.3553582	5432 5425	10.6446418	9.3668100	5726 5719	10.6331900	10.0114518	294	9.9885482	54
7	9.3559007		10.6440993	9.3673819		10.6326181	10.0114812	294	9.9885188	53
8	9.3564426	5419 5410	10.6435574	9.3679532	5713 5706	10.6320468	10.0115106	295	9.9884894	52
9	9.3569836	5404	10.6430164	9.3685238	5699	10.6314762 10.6309063	10.0115401	296	9.9884599	51 50
10 11	9.3575240 9.3580637	5397	10.6424760 10.6419363	9.3690937 9.3696629	5692	10.6303371	10.0115697 10.0115992	295	9.9884303 9.9884008	49
12	9.3586027	5390	10.6413973	9.3702315	5686	10.6297685	10.0116288	296	9.9883712	48
13	9.3591409	5382	10.6408591	9.3707994	5679	10.6292006	10.0116585	297	9.9883415	47
14	9.3596785	5376	10.6403215	9.3713667	5673	10.6286333	10.0116882	297	9.9883118	46
15	9.3602154	5369	10.6397846	9.3719333	5666	10.6280667	10.0117179	297 298	9.9882821	45
16	9.3607515	5361 5355	10.6392485	9.3724992	5659 5653	10.6275008	10.0117477	298	9.9882523	44
17	9.3612870	5347	10.6387130	9.3730645	5646	10.6269355	10.0117775	298	9.9882225	43
18	9.3618217	5341	10.6381783	9.3736291	5639	10.6263709	10.0118073	299	9.9881927	42
19	9.3623558	5334	10.6376442	9.3741930	5633	10.6258070	10.0118372	299	9.9881628	41
20	9.3628892	5327	10.6371108	9.3747563 9.3753190	5627	10.6252437 10.6246810	10.0118671 10.0118971	300	9.9881329 9.9881029	40
21 22	9.3634219 9.3639539	5320	10.6365781 10.6360461	9.3758810	5620	10.6240310	10.0119271	300	9.9880729	39 38
23	9.3644852	5313	10.6355148	9.3764423	5613	10.6235577	10.0119571	300	9.9880429	37
24	9.3650158	5306	10.6349842	9.3770030	5607	10.6229970	10.0119872	301	9.9880128	36
25	9.3655458	5300	10.6344542	9.3775631	5601	10.6224369	10.0120173	301	9.9879827	35
26	9.3660750	5292 5286	10.6339250	9.3781225	5594 5588	10.6218775	10.0120475	302 302	9.9879525	34
27	9.3666036	5279	10.6333964	9.3786813	5581	10.6213187	10.0120777	302	9.9879223	33
28 29	9.3671315	5272	10.6328685 10.6323413	9.3792394 9.3797969	5575	10.6207606	10.0121079	303	9.9878921	32
30	9.3676587 9.3681853	5266	10.6323413	9.3803537	5568	10.6202031 10.6196463	10.0121382 10.0121685	303	9.9878618 9.9878315	31 30
		5258			5563			303		
31 32	9.3687111 9.3692363	5252	10.6312889 10.6307637	9.3809100 9.3814655	5555	10.6190900 10.6185345	10.0121988 10.0122292	304	9.9878012 9.9877708	29 28
33	9.3697608	5245	10.6302392	9.3820205	5550	10.6179795	10.0122292	304	9.9877404	27
34	9.3702847	5239 5232	10.6297153	9.3825748	5543 5537	10.6174252	10.0122901	305	9.9877099	26
35	9.3708079	5225	10.6291921	9.3831285	5531	10.6168715	10.0123206	305, 306	9.9876794	25
36	9.3713304	5219	10.6286696	9.3836816	5524	10.6163184	10.0123512	305	9.9876488	24
37	9.3718523	5212	10.6281477	9.3842340	5518	10.6157660	10.0123817	307	9.9876183	23
38	9.3723735	5205	10.6276265	9,3847858	5512	10.6152142	10.0124124	306	9.9875876	22
39 40	9. <b>3728</b> 940 9. <b>3734</b> 139	5199	10.6271060 10.6265861	9.3853370 9.3858876	5506	10.6146630 10.6141124	10.0124430 10.0124737	307	9.9875570 9.9875263	21 20
41	9.3739331	5192	10.6260669	9.3864376	5500	10.6135624	10.0125045	308	9.9874955	19
42	9.3744517	5186	10.6255483	9.3869869	5493	10.6130131	10.0125352	307	9.9874648	18
43	9.3749696	5179	10.6250304	9.3875356	5487	10.6124644	10.0125661	309	9.9874339	17
44	9.3754868	5172 5166	10.6245132	9.3880837	5481 5475	10.6119163	10.0125969	308	9.9874031	16
45	9.3760034	5160	10.6239966	9.3886312	5469	10.6113688	10.0126278	309 309	9.9873722	15
46	9.3765194	5153	10.6234806	9.3891781	5463	10.6108219	10.0126587	310	9.9873413	14
47 48	9.3770347 9.3775493	5146	10.6229653 10.6224507	9.3897244 9.3902700	5456	10.6102756 10.6097300	10.0126897 10.0127207	310	9.9873103 9.9872793	13 12
		5140			5451			311		
49 50	9.3780633 9.3785767	5134	10.6219367 10.6214233	9.3908151 9.3913595	5444	10.6091849 10.6086405	10.0127518 10.0127829	311	9.9872482	11 10
51	9.3790894	5127	10.6214233	9.3913093	5439	10.6080966	10.0127629	311	9.9872171 9.9871860	9
52	9.3796015	5121 5114	10.6203985	9.3924466	5432 5427	10.6075534	10.0128451	311	9.9871549	8
53	9.3801129	5108	10.6198871	9.3929893	5420	10.6070107	10.0128764	313 312	9.9871236	7
54	9.3806237	5102	10.6193763	9.3935313	5414	10.6064687	10.0129076	313	9.9870924	6
55	9.3811339	5095	10.6188661	9.3940727	5409	10.6059273	10.0129389	313	9.9870611	5
56	9.3816434	5089	10.6183566	9.3946136	5402	10.6053864	10.0129702	314	9.9870298	4
57 58	9.3821523 9.3826605	5082	10.6178477 10.6173395	9.3951538 9.3956935	5397	10.6048462 10.6043065	10.0130016 10.0130330	314	9.9869984 9.9869670	3 2
59	9.3831682	5077	10.6168318	9.3962326	5391	10.6037674	10.0130530	314	9.9869356	ī
60	9.3836752	5070	10.6163248	9.3967711	5385	10.6032289	10.0130959	315	9.9869041	ō
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	17
II	<u>'</u>								<u>.                                    </u>	<u>.                                    </u>
10	30								76	30

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14	f <sub>o</sub>								16	35°
	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dir.	Co-sine.	1_
0	9.3836752	5063	10.6163248	9.3967711	5378	10.6032289	10.0130959	315	9.9869041	60
1	9.3841815	5058	10.6158185	9.3973089	5374	10.6026911	10.0131274	316	9.9868726	59
2 3	9.3846873 9.3851924	5051	10.6153127 10.6148076	9.3978463 9.3983830	5367	10.6021537 10.6016170	10.0131 <i>5</i> 90 10.0131906	316	9.9868410 9.9868094	58 57
4	9.3856969	5045	10.6143031	9.3989191	5361	10.6010809	10.0131300	316	9.9867778	56
5	9.3862008	5039	10.6137992	9.3994547	5356	10.6005453	10.0132539	317	9.9867461	55
6	9.3867040	5032	10.6132960	9.3999396	5349	10.6000104	10.0132856	317	9.9867144	54
7	9.3872067	5027	10.6127933	9.4005240	5344	10.5994760	10.0133173	317	9.9866827	53
8	9.3877087	5020	10.6122913	9.4010578	5338	10.5989422	10.0133491	318	9.9866509	52 52
9	9.3882101	5014	10.6117899	9.4015910	5332	10.5984090	10.0133809	318	9.9866191	51
10	9.3887109	5008 5002	10.6112891	9.4021237	5327	10.5978763	10.0134128	319	9.9865872	50
11	9.3892111	4995	10.6107889	9.4026558	5321 5315	10.5973442	10.0134447	319 320	9.9865553	49
12	9.3897106	4990	10.6102894	9.4031873	5309	10.5968127	10.0134767	320	9.9865233	48
13	9.3902096		10.6097904	9.4037182		10.5962818	10.0135087		9.9864913	47
14	9.3907079	4983 4978	10.6092921	9.4042486	5304 5298	10.5957514	10.0135407	320 320	9.9864593	46
15	9.3912057	4971	10.6087943	9.4047784	5292	10.5952216	10.0135727	321	9.9864273	45
16	9.3917028 9.3921993	4965	10.6082972	9.4053076	5287	10.5946924	10.0136048	322	9.9863952	44
17 18	9.3926952	4959	10.6078007 10.6073048	9.4058363 9.4063644	5281	10.5941637 10.5936356	10.0136370 10.0136692	322	9.9863639 9.9863308	43 42
		4953			5275			322		_
19	9.3931905	4947	10.6068095	9.4068919	5270	10.5931081	10.0137014	323	9.9862986	41
20 21	9.3936852 9.3941794	4942	10.6063148	9.4074189 9.4079453	5264	10.5925811 10.5920547	10.0137337	323	9.9862663 9.9862340	40
21	9.3946729	4935	10.6058206 10.6053271	9.4079453	5259	10.5920647	10.0137660 10.0137983	323	9.9862017	39 38
23	9.3951658	4929	10.6048342	9.4089965	5253	10.5910035	10.0138307	324	9.9861693	37
24	9.3956581	4923	10.6043419	9.4095212	5247	10.5904788	10.0138631	324	9.9861369	36
25	9.3961499	4918	10.6038501	9.4100454	5242	10.5899546	10.0138955	324	9.9861045	35
26	9.3966410	4911	10.6033590	9.4105690	5236	10.5894310	10.0139280	325	9.9860720	34
27	9.3971315	4905	10.6028685	9.4110921	5231	10.5889079	10.0139606	326	9.9860394	33
28	9.3976215	4900 4894	10.6023785	9.4116146	5225 5220	10.5883854	10.0139931	325 327	9.9860069	32
29	9.3981109	4887	10.6018891	9.4121366	5215	10.5878634	10.0140258	326	9.9859742	31
30	9.3985996	4882	10.6014004	9.4126581	5208	10.5873419	10.0140584	327	9.9859416	30
31	9.3990878	4876	10.6009122	9.4131789	5204	10.5868211	10.0140911	327	9.9859089	29
32	9.3995754	4871	10.6004246	9.4136993	5198	10.5863007	10.0141238	328	9.9858762	28
33	9.4000625	4864	10.5999375	9.4142191	5192	10.5857909	10.0141566	328	9.9858434	27
34 35	9.4005489 9.4010348	4859	10.5994511 10.5989652	9.4147383 9.4152570	5187	10.5852617 10.5847430	10.0141894 10.0142223	329	9.9858106 9.9857777	26 25
36	9.4015201	4853	10.5984799	9.4157752	5182	10.5842248	10.0142223	328	9.9857449	24
_		4847			5176			330		_
37 38	9.4020048 9.4024889	4841	10.5979952	9.4162928	5171	10.5837072 10.5831901	10.0142881 10.0143210	329	9.9857119 9.9856790	23 22
39	9.4029724	4835	10.5975111 10.5970276	9.4168099 9.4173265	5166	10.5826735	10.0143210	330	9.9856460	21
40	9.4034554	4830	10.5965446	9.4178425	5160	10.5821575	10.0143871	331	9.9856129	20
41	9.4039378	4824 4819	10.5960622	9.4183580	5155 5149	10.5816420	10.0144202	331 331	9.9855798	19
42	9.4044196		10.5955804	9.4188729		10.5811271	10.0144533		9.9855467	18
43	9.4049009	4813	10.5950991	9.4193874	5145	10.5806126	10.0144865	332	9.9855135	17
44	9.4053816	4807 4801	10.5946184	9.4199013	5139 5133	10.5800987	10.0145197	332 332	9.9854803	16
45	9.4058617	4796	10.5941383	9.4204146	5133 5129	10.5795854	10.0145529	333	9.9854471	15
46	9.4063413	4790	10.5936587	9.4209275	5123	10.5790725	10.0145862	333	9.9854138	14
47 48	9.4068203 9.4072987	4784	10.5931797	9.4214398	5117	10.5785602	10.0146195	334	9.9853805 9.9853471	13 12
		4779	10.5927013	9.4219515	5113	10.5780485	10.0146529	333		_
49	9.4077766	4773	10.5922234	9.4224628	5107	10.5775372	10.0146862	335	9.9853138	11
50 51	9.4082539 9.4087306	4767	10.5917461	9.4229735	5106	10.5770265	10.0147197	335	9.98 <b>528</b> 03 9.98 <b>524</b> 68	10
52	9.4092068	4762	10.5912694 10.5907932	9.4234838 9.4239935	5097	10.5765162 10.5760065	10.0147532 10.0147867	335	9.9852133	9
53	9.4096824	4756	10.5903176	9.4245026	5091	10.5754974	10.0147807	335	9.9851798	7
54	9.4101575	4751	10.5898425	9.4250113	5087	10.5749887	10.0148538	336	9.9851462	6
55	9.4106320	4745	10.5893680	9.4255194	5081	10.5744806	10.0148875	337	9.9851125	5
56	9.4111059	4739	10.5888941	9.4255194	5077	10.5744806	10.0148875	336	9.9850789	4
57	9.4115793	4734	10.5884207	9.4265342	5071	10.5734658	10.0149548	337	9.9850452	3 2
58	9.4120522	4729 4723	10.5879478	9.4270408	5066 5061	10.5729592	10.0149886	338	9.9850114	2
59	9.4125245	4717	10.5874755	9.4275469	5056	10.5724531	10.0150224	338	9.9849776	1
60	9.4129962		10.5870038	9.4280525	I	10.5719475	10.0150562		9.9849438	0
11	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	1
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15	;o 								16	340			
<u>'</u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	·	Dif.	Co-sine.	1			
o	9.4129962	4712	10.5870038	9.4280525	5050	10.5719475	10.0150562	339	9.9849438	60			
1 2	9.4134674 9.4139381	4707	10.5865326 10.5860619	9.4285575 9.4290621	2040	10.5714425 10.5709379	10.0150901 10.0151240	339	9.9849099 9.9848760	59 58			
3	9.4139381	4701	10.5855918	9.4295661	5040	10.5704339	10.0151240	340	9.9848420				
4	9.4148778	4696	10.5851222	9.4300697	5036	10.5699303	10.0151919	339	9.9848081	56			
5	9.4153468	4690 4684	10.5846532	9.4305727	5030 5026	10.5694273	10.0152260	341 340	9.9847740	55			
6	9.4158152	4680	10.5841848	9.4310753	5020	10.5689247	10.0152600	341	9.9847400	54			
7	9.4162832	4674	10.5837168	9.4315773	5016	10.5684227	10.0152941	342	9.9847059	53			
8	9.4167506	4668	10.5832494	9.4320789	5010	10.5679211	10.0153283	342	9.9846717	52			
9	9.4172174	4663	10.5827826	9.4325799	5005	10.5674201	10.0153625	342	9.9846375	51			
10 11	9.4176837 9.4181495	4658	10.5823163 10.5818505	9.4330804 9.4335805	5001	10.5669196 10.5664195	10.0153967 10.0154310	343	9.9846033 9.9845690	50 49			
12	9.4186148	4653	10.5813852	9.4340800	4995	10.5659200	10.0154653	343	9.9845347	48			
-		4647			4991			343		-			
13 14	9.4190795 9.4195436	4641	10.5809205 10.5804564	9.4345791 9.4350776	4985	10.5654209 10.5649224	10.0154996 10.0155340	844	9.9845004 9.9844660	47			
15	9.4193430	4637	10.5799927	9.4355757	4981	10.5644243	10.0155684	344	9.9844316				
16	9.4204704	4631	10.5795296	9.4360733	4976	10.5639267	10.0156029	345	9.9843971	44			
17	9.4209330	4626 4620	10.5790670	9.4365704	4971	10.5634296	10.0156374	345 345	9.9843626	43			
18	9.4213950		10.5786050	9.4370670	4961	10.5629330	10.0156719	346	9.9843281	42			
19	9.4218566	4616	10.5781434	9.4375631		10.5624369	10.0157065		9.9842935	41			
20	9.4223176	4610 4604	10.5776824	9.4380587	4956 4951	10.5619413	10.0157411	346 347	9.9842589	40			
21	9.4227780	4600	10.5772220	9.4385538	4947	10.5614462	10.0157758	347	9.9842242	39			
22 23	9.4232380	4594	10.5767620	9.4390485	4941	10.5609515	10.0158105	347	9.9841895	38			
23	9.4236974 9.4241563	4589	10.5763026 10.5758437	9.4395426 9.4400363	4937	10.5604574	10.01584 <i>5</i> 2 10.0158800	348	9.9841548 9.9841200	37 36			
		4584			4932			348					
25	9.4246147	4579	10.5753853	9.4405295	4927	10.5594705	10.0159148	349	9.9840852	35			
26 27	9.4250726 9.4255299	4573	10.5749274 10.5744701	9.4410222	4923	10.55897 <b>7</b> 8 10.5584855	10.0159497	349	9.9840503	34			
28	9.4259299	<b>45</b> 68	10.5744701	9.4415145 9.4420062	4917	10.5579938	10.0159846 10.0160195	349	9.9840154 9.9839805	33 32			
29	9.4264430	4563	10.5735570	9.4424975	4913	10.5575025	10.0160545	350	9.9839455	31			
30	9.4268988	4558	10.5731012	9.4429883	4908	10.5570117	10.0160895	350	9.9839105	30			
31	9.4273541	4553	10.5726459	9.4434786	4903	10.5565214	10.0161245	350	9.9838755	29			
32	9.4278089	4548	10.5721911	9.4439685	4899	10.5560315	10.0161243	351	9.9838404	29			
33	9.4282631	4542 4538	10.5717369	9.4444579	4894 4889	10.5555421	10.0161948	352	9.9838052	27			
34	9.4287169	4532	10.5712831	9.4449468	4884	10.5550532	10.0162299	351 353	9.9837701	26			
35	9.4291701	4527	10.5708299	9.4454352	4880	10.5545648	10.0162652	353 352	9.9837348	25			
36	9.4296223	4522	10.5703772	9.4459232	4875	10.5540768	10.0163004	353	9.9836996	24			
37	9.4300750	4517	10.5699250	9.4464107	4871	10.5535893	10.0163357	353	9.9836643	23			
38	9.4305267	4512	10.5694733	9.4468978	4865	10.5531022	10.0163710	354	9.9836290	22			
39	9.4309779	4507	10.5690221	9.4473843	4861	10.5526157	10.0164064	354	9.9835936	21			
40	9.4314286 9.4318788	4502	10.5685714 10.5681212	9.4478704 9.4483561	4857	10.5521296 10.5516439	10.0164418 10.0164773	355	9.9835582 9.9835227	20 19			
42	9.4323285	4497	10.5676715	9.4488413	4852	10.5511587	10.0165128	355	9.9834872	18			
I — I		4492			4847			355		_			
43	9.4327777 9.4332264	4487	10.5672223 10.5667736	9.4493260 9.4498102	4842	10.5506740 10.5501898	10.0165483 10.0165839	356	9.9834517 9.9834161	17			
45	9.4336746	4482	10.5663254	9.4502940	4838	10.5497060	10.0166839	356	9.9833805	16 15			
46	9.4341223	4477 4471	10.5658777	9.4507774	4834 4828	10.5492226	10.0166551	356 357	9.9833449	14			
47	9.4345694	4467	10.5654306	9.4512602	4825	10.5487398	10.0166908	357	9.9833092	13			
48	9.4350161	4462	10.5649839	9.4517427	4819	10.5482573	10.0167265	358	9.9832735	12			
49	9.4354623		10.5645377	9.4522246		10,5477754	10.0167623		9.9832377	11			
50	9.4359080	4457 4452	10.5640920	9.4527061	4815 4811	10.5472939	10.0167981	358 358	9.9832019	iô			
51	9.4363532	4448	10.5636468	9.4531872	4806	10.5468128	10.0168339	359	9.9831661	9			
52	9.4367980	4442	10.5632020	9.4536678	4801	10.5463322	10.0168698	360	9.9831302	8			
53 54	9.4372422 9.4376859	4437	10.5627578 10.5623141	9.4541479 9.4546276	4797	10.5458521 10.5453724	10.0169058 10.0169417	359	9.9830942 9.9830583	7 6			
1 1		4433			4793			360					
55	9.4381292	4427	10.5618708	9.4551069	4788	10.5448931	10.0169777	361	9.9830223	5			
56 57	9.4385719 9.4390142	4423	10.5614281 10.5609858	9.4555857 9.4560641	4784	10.5444143 10.5439359	10.0170138	361	9.9829862 9.9829501	3			
58	9.4394560	4418	10.5605440	9.4565420	4779	10.5439359	10.0170499 10.0170860	361	9.9829501	2			
59	9.4398973	4413	10.5601027	9.4570194	4774	10.5429806	10.0171222	362	9.9828778	î			
60	9.4403381	4408	10.5596619	9.4574964	4770	10.5425036	10.0171584	362	9.9828416	ō			
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7			
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	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif	Co-sine.	1	
0	9.4403381 9.4407784	4403	10.5596619 10.5592216	9.4574964 9.4579730	4766	10.5425036 10.5420270	10.0171584 10.0171946	362	9.9828416 9.9828054	60 59	
2	9.4412162	4398	10.5537818	9.4584491	4761	10.5415509	10.0172309	363	9.4827691	58	
3	9.4416576	4394 4389	10.5583424	9.4589248	4757 4753	10,5410752	10.0172672	363 364	9.9827328	57	
4	9.4420965	4384	10.5579035	9.4594001	4748	10.5405999	10.0173036	364	9.9826964	56	
5	9.4425349 9.4429728	4379	10.5574651 10.5570272	9.4598749 9.4603492	4743	10.5401251 10.5396508	10.0173400 10.0173764	364	9.9826600 9.9826236	56 54	
7		4375			4740			365			
8	9.4434103 9.4438472	4369	10.5565897 10.5561528	9.4608232 9.4612967	4735	10.5391768 10.5387033	10.0174129	365	9.9825871 9.9825506	53 52	
9	9.4442837	4365	10.5557163	9.4617697	4730	10.5382303	10.0174860	366	9.9825140	51	
10	9.4447197	4360 4356	10.5552803	9.4622423	4726 4722	10.5377577	10.0175226	366 366	9.9824774	50	
11 12	9.4451553	4351	10.5548447	9.4627145	4718	10.5372855	10.0175592	367	9.9824408	49	
	9.4455904	4346	10.5544096	9.4631863	4713	10.5368137	10.0175959	367	9.9824041	48	
13	9.4460250	4341	10.5539750	9.4636576	4709	10.5363424	10.0176326	368	9.9823674	47	
14 15	9·4464591 9.4468927	4336	10.5535409 10.5531073	9.4641285 9.4645990	4705	10.5358715 10.5354010	10.0176694 10.0177062	368	9.9823306 9.9822938	46 45	
16	9.4473259	4332	10.5526741	9.4650690	4700	10.5349310	10.0177431	369	9.9822569	44	
17	9.4477586	4327 4323	10.5522414	9.4655386	4696 4692	10.5344614	10.0177799	368	9.9822201	43	
18	9.4481909	4323	10.5518091	9.4660078	4687	10.5339922	10.0178169	370	9.9821831	42	
19	9.4486227	4313	10.5513773	9.4664765	4683	10.5335235	10.0178538	369 370	9.9821462	41	
20	9.4490540	4309	10.5509460	9.4669448	4679	10.5330552	10.0178908	371	9.9821092	40	
21 22	9.4494849 9.4499153	4304	10.5505151 10.5500847	9.4674127	4675	10.5325873 10.5321198	10.0179279	370	9.9820721	39 38	
23	9.4503452	4299	10.5496548	9.4678802 9.4683473	4671	10.5316527	10.0179649 10.0180021	372	9.9820351 9.9819979	37	
24	9.4507747	4295	10.5492253	9.4688139	4666	10.5311861	10.0180392	371	9.9819608	36	
25	9.4512037	4290	10.5487963	9.4692801	4662	10.5307199	10.0180764	372	9.9819236	35	
26	9.4516322	4285	10.5483678	9.4697459	4658	10.5302541	10.0181137	373	9.9818863	34	
27	9.4520603	4281 4276	10.5479397	9.4702112	4653 4650	10.5297888	10.0181510	373 373	9.9818490	33	
28 29	9.4524879	4272	10.5475121	9.4706762	4645	10.5293238	10.0181883	373	9.9818117	32	
30	9.4529151 9.4533418	4267	10.5470849 10.5466582	9.4711407 9.4716048	4641	10.5288593 10.5283952	10.0182256 10.0182630	374	9.9817744 9.9817370	31 30	
l — l		4263			4637			375			
31 32	9.4537681 9.4541939	4258	10.5462319 10.5458061	9.4720685 9.4725318	4633	10.5279315 10.5274682	10.0183005 10.0183380	375	9.9816995 9.9816620	29 28	
33	9.4546192	4253 4249	10.5453808	9.4729947	4629 4625	10.5270053	10.0183755	375	9.9816245	27	
34	9.4550441	4245	10.5449559	9.4734572	4620	10.5265428	10.0184130	375 376	9,9815870	26	
35 36	9.4554686 9.4558926	4240	10.5445314	9.4739192	4616	10.5260808 10.5256192	10.0184506	377	9.9815494	25	
		4235	10.5441074	9.4743808	4613		10.0184883	377	9.9815117	24	
37 38	9.4563161	4231	10.5436839	9.4748421	4608	10.5251579	10.0185260	377	9.9814740	23	
39	·9.4567392 9.4571618	4226	10.5432608 10.5428382	9.4753029 9.4757633	4604	10.5246971 10.5242367	10.0185637 10.0186014	377	9,9814363	22	
40	9.4575840	4222 4218	10.5424160	9.4762233	4600 4596	10.5237767	10.0186392	378 379	9.9813608	21 20	
41	9.4580058	4213	10.5419942	9.4766829	4592	10.5233171	10.0186771	379	9.9813229	19	
42	9.4584271	4209	10.5415729	9.4771421	4588	10.5228579	10.0187150	379	9.9812850	18	
43	9.4588480	4204	10.5411520	9.4776009	4583	10.5223991	10.0187529	380	9.9812471	17	
44 45	9.4592684 9.4596884	4200	10.5407316 10.5403116	9.4780592	4580	10.5219408 10.5214828	10.0187909	380	9.9812091	16	
46	9.4601079	4195	10.5398921	9.4785172 9.4789748	4576	10.5214828	10.0188289 10.0188669	380	9.9811711 9.9811331	15 14	
47	9.4605270	4191 4186	10.5394730	9.4794319	4571 4568	10.5205681	10.0189050	381 381	9.9810950	13	
48	9.4609456	4182	10.5390544	9.4798887	4564	10.5201113	10.0189431	382	9.9810569	12	
49	9.4613638	4178	10.5386362	9.4803451	4560	10.5196549	10.0189813	382	9.9810187	11	
50	9.4617816	4173	10.5382184	9.4808011	4555	10.5191989	10.0190195	382	9.9809805	10	
51 52	9.4621989 9.4626158	4169	10.5378011 10.5373842	9.4812566 9.4817118	4552	10.5187434 10.5182882	10.0190577 10.0190960	383	9.9809423	9	
53	9.4630323	4165 4160	10.5369677	9.4821666	4548 4544	10.5178334	10.0190360	383	9.9808657	8	
54	9.4634483		10.5365517	9.4826210		10.5173790	10.0191727	384	9.9808273	6	
55	9.4638639	4156	10.5361361	9.4830750	4540	10.5169250	10.0192111	384	9.9807889	5	
56	9.4642790	4151 4148	10.5357210	9.4835286	4536 4532	10.5164714	10.0192495	384 385	9.9807505	4	
57 58	9.4646938	4143	10.5353062	9.4839818	4528	10.5160182	10.0192880	385	9.9807120	3	
59 59	9.4651081 9.4655219	4138	10.5348919 10.5344781	9.4844346 9.4848870	4524	10.5155654 10.5151130	10.0193265 10.0193651	386	9.9806735 9.9806349	2	
60	9.4659353	4134	10.5340647	9.4853390	4520	10.5146610	10.0193631	386	9.9805963	1 0	
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	-	
10	)6°	***********							7	80	
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17	70								169	50
7	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.4659353	4130	10.5340647	9.4853390	4517	10.5146610	10.0194037	386	9.9805963	60
1	9.4663483	4126	10.5336517	9.4857907	4512	10.5142093	10.0194423	387	9.9805577	<b>5</b> 9
2	9.4667609	4121	10.5332391	9.4862419	4509	10.5137581	10.0194810	387	9.9805190	58
3	9.4671730	4118	10.5328270	9.4866928	4505	10.5133072	10.0195197	388	9.9804803	57
5	9.4675848 9.4679960	4112	10.5324152 10.5320040	9.4871433 9.4875933	4500	10.5128567 10.5124067	10.0195585 10.0195973	388	9.9804415 9.9804027	56 55
6	9.4684069	4109	10.5315931	9.4880430	4497	10.5119570	10.0196361	388	9.9803639	54
		4104			4494			389		_
7	9.4688173 9.4692273	4100	10.5311827 10.5307727	9.4884924 9.4889413	4489	10.5115076	10.0196750 10.0197140	390	9.9803250 9.9802860	53 52
8 9	9.4696369	4096	10.5303631	9.4893898	4435	10.5110587 10.5106102	10.0197140	389	9.9802471	51
10	9.4700461	4092	10.5299539	9.4898380	4482	10.5101620	10.0197919	390	9.9802081	50
īĭ	9.4704548	4087	10.5295452	9.4902858	4478	10.5097142	10.0198310	391	9.9801690	49
12	9.4708631	4033	10.5291369	9.4907332	4474	10.5092668	10.0198701	391	9.9801299	48
13	9.4712710	4079	10.5287290	9.4911802	4470	10.5088198	10.0199092	391	9.9800908	47
14	9.4716785	4075	10.5283215	9.4916269	4467	10.5083731	10.0199484	392	9.9800516	46
15	9.4720856	4071	10.5279144	9.4920731	4462	10.5079269	10.0199876	392	9.9800124	45
16	9.4724922	4066 4063	10.5275078	9.4925190	4459 4456	10.5074810	10.0200268	392 393	9.9799732	44
17	9.4728985	4058	10.5271015	9.4929646	4450 4451	10.5070354	10.0200661	393	9.9799339	43
18	9.4733043	4054	10.5266957	9.4934097	4448	10.5065903	10.0201054	394	9.9798946	422
19	9.4737097	4049	10.5262903	9.4938545		10.5061455	10.0201448	100	9.9798552	41
20	9.4741146	4046	10.5258854	9.4942988	4443 4441	10.5057012	10.0201842	394 394	9.9798158	40
21	9.4745192	4042	10.5254808	9.4947429	4436	10.5052571	10.0202236	395	9.9797764	39
22	9.4749234	4037	10.5250766	9.4951865	4433	10.5048135	10.0202631	396	9.9797369	38
23 24	9.4753271 9.4757304	4033	10.5246729 10.5242696	9.4956298 9.4960727	4429	10.5043702	10.0203027 10.0203422	395	9.9796973 9.9796578	37 36
_		4030			4425			396		- 1
25	9.4761334	4025	10.5238666	9.4965152	4422	10.5034848	10.0203818	397	9.9796182	35
26 27	9.4765359	4021	10.5234641 10.5230620	9.4969574 9.4973991	4417	10.5030426	10.0204215	397	9.9795785	34
28	9.4769380 9.4773396	4016	10.5236604	9.4978406	4415	10.5026009	10.0204612 10.0205009	397	9.9794991	33 32
29	9.4777409	4013	10.5222591	9.4982816	4410	10.5017184	10.0205407	398	9.9794593	31
30	9.4781418	4009	10.5218582	9.4987223	4407	10.5012777	10.0205805	398	9.9794195	30
31	9.4785423	4005	10.5214577	9.4991626	4403	10.5008374	10.0206204	399	9.9793796	29
32	9.4789423	4000	10.5210577	9.4996026	4400	10.5003974	10.0206602	398	9.9793398	28
33	9.4793420	3997 3992	10.5206580	9.5000422	4396 4392	10.4999578	10.0207002	400 399	9.9792998	27
34	9.4797412	3989	10.5202588	9.5004814	4389	10.4995186	10.0207401	101	9.9792599	26
35	9.4801401	8984	10.5198599	9.5009203	4385	10.4990797	10.0207802	400	9.9792198	25
36	9.4805385	3981	10.5194615	9.5013588	4381	10.4986412	10.0203202	101	9.9791798	24
37	9.4809366	3976	10.5190634	9.5017969	4378	10.4982031	10.0208603	401	9.9791397	23
38	9.4813342	3973	10.5186658	9.5022347	4374	10.4977653	10.0209004	102	9.9790996	22
39 40	9.4817315	3968	10.5182685	9.5026721	4371	10.4973279	10.0209406	102	9.9790594	21
41	9.4821283 9.4825248	3965	10.5178717 10.5174752	9.5031092 9.5035459	4367	10.4968908 10.4964541	10.0209808 10.0210211	103	9.979019 <del>2</del> 9.9789789	20 19
42	9.4829208	3960	10.5170792	9.5039822	4363	10.4960178	10.0210211	103	9.9789386	18
_		3957			4360			103		I I
43	9.4833165 9.4837117	3952	10.5166835 10.5162883	9.5044182 9.5048538	4356	10.4955818 10.4951462	10.0211017 10.0211421	104	9.9788983 9.9788579	17 16
45	9.4841066	3949	10.5158934	9.5052891	4353	10.4931462	10.0211421	104	9.9788175	15
46	9.4845010	3944 3941	10.5154990	9.5057240	4349 4346	10.4942760	10.0212230	405 405	9.9787770	14
47	9.4848951	3937	10.5151049	9.5061586	4342	10.4938414	10.0212635	105	9.9787365	13
48	9.4852888	3932	10.5147112	9.5065928	4339	10.4934072	10.0213040	406	9.9786960	12
49	9.4856820	3929	10.5143180	9.5070267	4335	10.4929733	10.0213446	553	9.9786554	11
50	9.4860749	3929	10.5139251	9.5074602	4335	10.4925398	10.0213852	406	9.9786148	10
51	.9.4864674	3921	10.5135326	9.5078933	4328	10.4921067	10.0214259	407	9.9785741	9
52	9.4868595	3917	10.5131405	9.5083261	4325	10.4916739	10.0214666	407	9.9785334	8
53 54	9.4872512 9.4876426	3914	10.51 <b>27</b> 488 10.5123574	9.5087586 9.5091907	4321	10.4912414 10.4908093	10.0215073 10.0215481	408	9.9784927 9.9784519	6
H		3909			4317			408		
55	9.4880335	3905	10.5119665	9.5096224	4315	10.4903776	10.0215889	409	9.9784111	5
56 57	9.4884240 9.4888142	3902	10.5115760	9.5100539	4310	10.4899461 10.4895151	10.0216298 10.0216707	409	9.9783702 9.9783293	3
58	9.4892040	3898	10.5111858 10.5107960	9.5104849 9.5109156	4307	10.4890844	10.0216707	410	9.9782883	2
59	9.4895934	3894	10.5104066	9.5113460	4304	10.4886540	10.0217526	409	9.9782474	ĩ
60	9.4899824	3890	10.5100176	9.5117760	4300	10.4882240	10.0217937	411	9.9782063	Ō
17	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif	Sine.	17
II	<del>'                                    </del>			1			1		<u>.                                    </u>	<del></del>
1 1	07°								7	<b>2</b> 0

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1 9.9693710   3885   10.069280   9.152551   4294   10.4875943   10.0218347   412   9.781653   3.94911471   3779   10.0692655   9.152551   4290   10.4869359   10.021970   412   9.780850   429491516   5371   10.508685   9.5134077   4285   10.486973   10.021994   413   9.780850   42949363   3863   10.5076319   9.514320   4280   10.4869510   10.021994   413   9.778068   414   9.778068   415   9.492646   415   9.5143207   4280   10.4869510   10.021934   413   9.777806   415   9.49264   415   9.777806   415   9.496706   415   9.496	18	80	•							16	1°
1 9,490710  3885  10,096290 9,5129501 429  10,487349  10,0218347  412 9,781645  39,141471 379	1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
2 9,49078692   98022   10,50692408   9,5193604   4286   10,4865073   10,0219562   412   9,780805   413   9,491545   414   9,491545   415   9,491546   415   9,4925083   415			3886			4297			410		60
3 9.491471 387											59 58
6 9,4920085 3861 10.5090784 9.5139210 4276 10.4836610 10.0220407 413 9.778206 6 9,4920085 3860 10.5090594 9.514706 10.4836610 10.0221944 413 9.778206 19 9,493861 3856 10.5090593 9.516309 4276 10.484761 10.0221934 413 9.778206 19 9,493861 3856 10.5090539 9.516309 4276 10.484761 10.0221934 413 9.778206 11 9,4942361 3844 10.5090789 3.516309 4276 10.483610 10.0221407 413 9.778208 11 9,4942361 3844 10.5090789 3.516309 4276 10.4835161 10.022247 414 9.9778208 415 9.777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.5777828 415 9.477820 415 9.	3										57
6 9.923083 3867 10.067697 9.514349 4276 10.4856510 10.022040 413 9.9773868 1 9.94830861 3865 10.506194 9.512393 4276 10.4852234 10.0220820 414 9.97738766 1 9.94830861 3855 10.5061349 9.5163039 4270 10.484391 10.0221647 413 9.9773876 1 1 9.4942361 3848 10.5057639 9.516438 4259 10.4853821 10.022347 415 9.9773878 1 1 9.4942361 3848 10.505785 9.516438 4259 10.4853821 10.022347 415 9.9777388 1 1 9.4950046 3837 10.5046117 9.5177506 4259 10.4852804 10.0223707 415 9.9777686 1 1 9.4953881 3829 10.5054874 9.518185 4249 10.4852804 10.0223707 415 9.9777686 1 1 9.4953881 3 325 10.5046117 9.5177606 4246 10.4813899 10.0223707 415 9.977686 1 1 9.49565710 3829 10.5036805 9.5166101 4246 10.4813899 10.0222597 417 9.9776860 1 1 9.4976824 3811 10.5023176 9.5203005 9.5194583 4235 10.4800565 10.0222371 417 9.9776860 4245 10.4800565 10.0222371 417 9.495653 3037 10.5046107 9.5203005 9.5194583 4239 10.480046 3007 4007 4007 4007 4007 4007 4007 4007											56
7 9.4926946 3860 10.5073054 9.5147756 4273 10.4847261 10.0221234 413 9.9778180 1 9.9493613 3825 10.506339 9.5156399 4266 10.4843991 10.0221234 413 9.9778180 1 1 9.4942361 3848 10.5057639 9.5156438 4256 10.4843991 10.0222477 415 9.9778283 1 1 9.4946205 3844 10.5057639 9.5156438 4256 10.4853912 10.0222477 415 9.9777828 1 1 9.4946205 3844 10.5057639 9.5156438 4256 10.4853913 10.0222477 415 9.9777828 1 1 9.4946205 3841 10.505785 9.5156438 4256 10.4853913 10.0222477 415 9.9777828 1 1 9.4953883 3833 10.5046117 9.5177606 4249 10.4822314 10.0223721 416 9.977627 1 1 9.4956370 322 10.5036405 9.5186101 4246 10.4818145 10.0224566 418 9.9776444 1 1 9.4953883 3 10.5046117 9.5177606 4249 10.4818145 10.0224566 418 9.9776444 1 1 9.4956370 322 10.5036405 9.5186101 4246 10.4818145 10.0224566 418 9.9776609 1.9467632 1 0.5036450 9.5194801 4243 10.4800417 10.0225391 417 9.9776609 9.4976624 3811 10.5026590 9.5198819 4236 10.4800417 10.0225391 418 9.9773609 1 0.503450 9.5207826 4226 10.478049 10.0225284 418 9.9773785 422 9.4984442 307 10.5015656 9.521730 4220 10.4780490 10.0225664 429 9.777385 422 9.4984442 3000 10.501656 9.5215730 4220 10.4780490 10.0225664 420 9.9773854 4216 9.4995633 3788 10.500457 9.522379 9.522389 10.4780480 10.0225664 420 9.9773856 422 9.4998453 3000 10.500735 9.522389 4220 10.4780490 10.0225894 429 9.7778356 421 9.771625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.4764 377 1 0.4985625 9.522739 4200 10.476491 10.0223684 429 9.776829 4200 10.476491 10.0223684 429 9.776829 420 0.476480 10.0230487 429 9.776829 4200 10.476491 10.0223687 429 9.776829 4200 10.476491 10.0223687 429 9.776829 4200 10.476491 10.0223687 429 9.776829 4200 10.476491 10.0223687 429 9.776829 420 10.476691 10.0230487 429 9.776829 420 10.476691 10.0230487 429 9.776829 420 10.476691 10.0230487 429 9.776829 420 10.476691 10.0230497 429 9.776829 420 10.476691 10.0230497 429 9.776829 420 1											55 54
8 9.4930806 3850 10.506399 9.516399 4270 10.484399 10.0221647 415 9.977835 10.506379 9.516509 4270 10.484399 10.0222477 415 9.9777823 11 9.4942361 3844 10.505739 9.516639 4256 10.485993 10.0222477 415 9.9777823 12 9.4946205 3841 10.5053735 9.516999 4256 10.485993 10.222892 415 9.9777823 11 9.495046 3841 10.5053735 9.516999 4256 10.485993 10.222892 415 9.9777628 4256 10.485983 3833 10.5046117 9.5177606 4253 10.485261 10.0223723 416 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.9776271 415 9.495761 3825 10.5034639 9.5196344 4259 10.489656 10.222494 417 9.9776271 415 9.9776271 425 9.9776271 415 9.97762			3863			4276	<del></del>		413		_
9 9.4934661 3855   10 9.4942361 3848   10.5067639   9.516438 4259   10.482594   10.0222397   415   9.977328   12 9.4946205 3841   10.5045763   9.516438 4259   10.482594   10.0222397   415   9.977328   12 9.4950046 3837   10.504934   9.5173533   4259   10.4825943   10.0222397   416   9.977688   12 9.495036   3837   10.504934   9.5181363   4245   10.482594   10.0223397   416   9.977688   12 9.495037   3822   10.503485   9.5186101   4246   10.4813899   10.02224574   417   9.9776868   17 9.495057   3822   10.503486   9.5194382   4259   10.4800417   10.222591   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4246   10.4813899   10.02224574   417   9.977669   4256   4256   10.4792718   10.02224574   417   9.977669   4256   42			3860			4273					53 52
10   9.4938513   3844   10.5053795   9.5169375   4256   10.4823641   10.9222477   11   9.4946205   3844   10.5053795   9.5169097   4256   10.4823643   10.02223892   415   9.9777398   4256   10.4823643   10.02223892   415   9.9777108   4256   10.4823643   10.02223892   415   9.9777108   4256   10.4823643   10.02223892   415   9.9777108   4256   10.4823643   10.02223892   415   9.9777108   4256   10.4823643   10.02223892   415   9.9777108   4256   10.4823643   10.02223892   416   9.9776823   4256   10.4826347   10.0223392   416   9.9776823   4256   10.4823643   10.0223456   418   9.9776824   4256   10.4823643   10.0224456   418   9.9776824   4256   10.4823643   10.0224456   418   9.9776824   4256   10.482644   4256   10.4826447   4256   10.4826447   10.0223324   418   9.9776824   4256   10.482644   4256   10.4826447   4256   10.4826447   10.0223324   418   9.9776824   4256   10.482644   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   10.4826447   4256   4256   10.4826447   4256   4256   10.4826447   4256   4256   10.4826447   4256   4256   10.4826447   4256   4256   10.4826447   4256   4											51
11		9.4938513									50
13   9.4950066   3837   10.504954   9.517353   4256   10.4826347   10.0223723   416   9.9776873   10.9485873   10.5042284   5.5181355   4246   10.4818149   10.0223723   416   9.9776873   10.9486370   3822   10.5003630   9.5190344   4233   10.4802394   10.0223723   417   9.9776800   418   9.9476824   3811   10.5026990   9.5198819   20   9.4976824   3811   10.5026990   9.5198819   21   9.4980635   3807   10.603636   9.5290362   4230   10.4806417   10.0225802   418   9.9773026   4232   10.4806417   10.0225803   4233   10.4806417   10.0225803   4233   10.4806435   4234   10.0225802   418   9.9773026   4234   4235   10.4806417   10.0225802   4235   10.480643   4235   10.4806417   10.0225802   4235   10.480643   4235   10.4806417   10.0225802   4235   10.480643   4235   10.4806417   10.0225802   4235   10.480643   4235   10.4806413   4235   10.4806413   10.0225802   418   9.9773026   4235											49
13   9,4950838   3837   10,504954   9,5173353   429   10,482647   10,2223307   416   9,9776277   417   9,495363   3833   10,5040284   9,518185   4249   10,481389   10,0224356   418   9,977627   417   9,495370   3822   10,5034630   9,519433   4233   10,4809656   10,0224374   417   9,9776286   429   10,481389   10,0225391   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9776286   418   9,9773546   418   9,9773546   418   9,977286   418   9,9773546   418   9,977286   418   9,9773546   418   9,977286   418   9,977286   418   9,977286   418   9,977286   418   9,977286   418   9,9773546   418   9,977286	12	9.4946205		10.5053795	9.5169097		10.4830903	10.0222892		9.9777108	48
16											47
16   9.4961645   3029   10.5034636   9.5186101   17   9.4965570   3022   10.5034630   9.5190344   4243   10.4806561   10.0224974   417   9.9775026   418   9.9775026   419				10.5046117							46
17   9.4965370   3812   10.5034630   9.5194819   10.4809666   10.0224974   417   9.9775026   10.998791   10.4809667   10.4809617   10.0225391   418   9.9775026   420   9.4976824   3811   10.5023176   9.5203052   4220   10.4908663   10.0226228   418   9.9773772   4220   10.4989033   3807   10.5013658   9.5211508   4222   10.4786494   10.0225646   420   9.9773872   422   4220   10.4786494   10.0225646   420   9.9773872   422   4220   10.4786494   10.0226646   420   9.9773874   422   4220   10.4786494   10.0226646   422   4220   10.4786494   10.0226646   422   4220   10.4786494   10.0227686   4220   9.9773834   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4786491   10.0227685   4220   10.4780801   10.0227685   4221   10.477692   10.4780801   10.0227685   4221   10.477692   10.4780801   10.0227685   4221   10.477692   10.478691   10.478691   10.0228747   4221   9.9771674   4221   10.0228747   4221   9.9771674   4221   10.0228747   4221   9.9771674   4221   10.0228747   4221   9.9771674   4221   10.478691   10.4754801   10.0230142   422   9.97668981   422   9.97668981   422   9.976872   422   9.976872   422   9.976872   422   9.976872   422   9.976872   422   9.976872   422   9.976872   422   9.976872   422   9.9768898   422   9.9768898   422   9.9768898   422   9.9768898   422   9.9768981   422   9.9768898   422											44
18											43
19   9.4973010   3814   10.50266990   9.5198819   4233   10.4906181   10.02256223   419   9.97713772   10.4986423   3917   10.5019365   9.5207282   4230   10.4796748   10.02266264   420   9.97713772   10.4988245   3903   10.5015658   9.5211568   4222   10.47844270   10.0226646   420   9.97713354   4215   10.47948492   10.0227066   420   9.97725154   4216   10.4784270   10.0227485   420   9.97725154   4216   10.4786050   10.0227905   421   9.97725154   4216   10.4786050   10.0227905   421   9.9771253   4216   10.4786050   10.0227905   421   9.9771253   4216   10.4786050   10.0227905   421   9.97712495   4216   10.4786050   10.0227905   421   9.97712495   4216   10.4786050   10.0228767   421   9.97712495   4210   10.47676411   10.0228767   421   9.9771253   4210   10.4767411   10.0228767   421   9.9771253   4210   10.4767411   10.0228767   421   9.9771253   4210   10.4767411   10.0228767   421   9.9771253   4210   10.4767411   10.0223767   421   9.9771253   4210   10.4767411   10.0230112   421   9.97706322   9.50507206   3781   10.4985236   9.5245199   4194   10.4758010   10.0230434   422   9.9768760   4194   41	18	9.4969192									42
29   9.4976824   3811   10.5023176   9.5203052   4230   10.4792718   10.0226262   418   9.9773372   4230   10.4792718   10.0226264   420	19	9.4973010		10.5026990	9.5198819		10.4801181	10.0225809		9.9774191	41
22   9.4984424   3803   10.5019558   9.5211508   4222   10.4784829   10.0227485   420   9.9772394   421   10.47848270   10.0227485   420   9.9772395   4222   10.47848270   10.0227485   420   9.9772395   4222   10.47848270   10.0227485   420   9.9772395   4210   10.4780650   10.0227485   421   9.9772395   4210   10.4780650   10.0227485   421   9.9772395   4210   10.4780650   10.0227485   421   9.9772395   4210   10.4771621   10.0223767   421   9.97712515   4210   10.4771621   10.0223767   421   9.9771674   421				10.5023176	9.5203052		10.4796948			9.9773772	40
23 9.4988245 3800 10.5010358 3.5216730 4222 10.4784270 10.0227485 420 9.977295											39
24         9.4992045         3800         10.5007955         9.5219950         4220         10.4778036         10.0227905         421         9.9772095         421         9.9772095         421         9.97712095         421         9.97712095         421         9.9771674         421         9.9776956         422         9.9770410         422         9.9770410         422         9.9776956         422         9.9776956				10.0010008		4222				9.9772934	38 37
2.6   9.4995840   3793   10.5004160   9.5224166   9.4995830   3788   10.5000367   9.5228379   4210   10.4771621   10.0228326   421   9.9771674   421   9.9771632   422   9.5003421   3785   10.4996579   9.5228379   4210   10.4763205   10.0229590   4420   9.5010987   3771   10.4989013   9.5240999   4200   10.475901   10.0229590   422   9.9770832   423   9.5014764   3774   10.4981462   9.5245199   4196   10.4756905   10.0230857   423   9.9769868   423   9.5022308   3767   3.64767692   9.525389   4194   10.4754801   10.0230857   423   9.9769868   424   9.5056077   3763   3769   3.6486403   9.5261966   4184   3.6486403   9.5033597   3756   3.6486403   9.5261966   4184   3.6486403   9.5048589   3744   3.9563889   3744   3.9563889   3744   3.9563889   3744   3.9563888   3744   3.9567389   3738   3.9596388   3744   3.9567389   3738   3.9596388   3744   3.9567389   3738   3.9596388   3744   3.9567389   3738   3.9596388   3744   3.9567389   3.9567389   3.9596388   3.959				10.5007955		4220					36
26   9.499653   3788   10.4996579   9.5928379   4210   10.4767411   10.0229168   422   9.9770832   9.5010987   3781   10.4992794   9.5236795   4206   10.4763205   10.0229590   422   9.9770832   9.5010987   3777   10.4989013   9.5245199   4200   10.4759001   10.0230434   423   9.9769868   9.5025075   3767   10.497692   9.5255389   4194   10.4754801   10.0230434   423   9.9769868   3745   35   9.5028075   3763   10.4970162   9.5255389   4194   10.4754801   10.0231280   424   9.9768720   425   9.5025389   3769   10.497692   9.5255389   4194   10.4748221   10.0231280   424   9.9768720   425   9.5033597   3769   10.4966403   9.5261966   4184   10.473825   10.4925218   425   9.9767872   427   9.5048588   3745   10.4956497   9.5276382   4171   41725492   10.0233253   425   9.9767872   427   9.5048598   3744   10.495147   9.5276828   4171   41725492   10.02334255   425   9.9766772   427   9.50656077   428   9.5063542   3721   10.4940189   9.5286387   4165   10.4708653   10.4925288   9.5074712   3716   10.4926488   9.5291186   10.4708653   10.0235536   428   9.9766578   428   9.5063542   3721   10.4936488   9.5291186   10.4708653   10.0235694   429   9.9766517   429   9.5063582   3723   10.4940889   9.528683   4161   10.4708653   10.0235694   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.5063582   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766518   429   9.9766519   429   9.9766518	95	9.4995840		10 5004160	9 5994166		10 4775094	10 0998396			35
27   9.5003421   3785   10.4996379   9.5235889   4210   10.4767411   10.0229168   422   9.9770832   28   9.5010987   3781   10.4998913   9.5240999   4200   10.4759011   10.0230434   423   9.9769566   3771   10.4985236   9.5245199   4200   10.4754801   10.0230434   423   9.9769566   32   9.5022308   3767   10.497692   9.5253589   4194   10.4759001   10.0230434   423   9.9768720   423   9.9768720   424   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9768720   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   425   9.9767872   426   9.5082389   3741   0.4951402   9.5287821   4171   0.4725492   0.0233403   426   9.9766171   427   9.5058073   3781   0.4947661   9.5287021   4165   0.47104653   0.0233692   427   9.9765745   427   9.9765745   428   9.5082389   3781   0.4947661   9.5287021   4165   0.4708814   0.0233692   427   9.9765485   427   9.9765485   428   9.5082389   3781   0.4947661   9.5287021   4165   0.4708814   0.0233692   427   9.9765485   428   9.5082381   428   9.5082141   3709   3720   0.492908   9.5307813   4168   0.4668339   0.0235392   429   9.976308   429   9.976308   429   9.976308   429   9.976308   420	26			10.5000367	9.5228379					9.9771253	34
28 9.5007206 3781 10.4992794 9.5236795 \$200 10.4763205 10.0229500 \$22 9.570496 3777 10.4985236 9.5245199 4200 10.475401 10.0230434 423 9.9769368 32 9.5022038 3767 10.4977692 9.5253589 4190 10.475401 10.0230434 423 9.9768720 32 9.5022038 3767 10.4977692 9.5253589 4190 10.4746411 10.0231290 424 9.9768720 32 9.502308 3767 10.497062 9.5253589 4190 10.4746411 10.0231290 424 9.9768296 32 9.5033597 3756 10.497062 9.5261966 4181 10.4738350 10.0232128 425 9.9768720 425 9.5033597 3756 10.4966403 9.5266150 4181 10.4738350 10.02322128 425 9.9767447 4187 10.4951402 9.5261966 4181 10.4738350 10.02322128 425 9.9767427 4187 10.4951402 9.5268285 4174 10.4725492 10.0232228 425 9.9767622 427 9.5048598 3741 10.4951402 9.5268285 4171 10.4721318 10.0233229 426 9.9766597 4187 10.4951402 9.5268285 4171 10.4721318 10.0233229 426 9.9766597 418 10.4951402 9.5268285 4171 10.4721318 10.0233229 426 9.9766597 418 10.4940189 9.5293547 4168 10.4704653 10.0235268 427 9.9765745 427 9.5065074 428 9.5062389 3781 10.4947661 9.5287021 4165 10.4708814 10.0233209 426 9.9766597 4168 10.4704653 10.0235268 427 9.97654464 429 9.5067269 3723 10.492908 9.5307813 4168 10.4704653 10.0235268 428 9.9766464 429 9.5067269 3723 10.492908 9.5307813 4168 10.4704653 10.0235269 429 9.9766308 429 9.9766464 429 9.506850 3702 10.4924582 9.5316107 4168 10.46692187 10.0233839 430 9.9761461 10.4914150 9.5326526 4133 10.46692187 10.0233839 430 9.9766391 429 9.5086850 3702 10.4914450 9.5326526 4133 10.4669211 10.0239401 439 9.9766399 429 9.506059 52 9.5096956 3698 10.4903044 9.5336789 4157 10.4669211 10.0239401 439 9.9766399 529.500651 569 9.5100651 569 9.5108051 568 10.4891599 9.5344916 10.465980 10.0420667 433 9.9766059 52 9.5006516 3688 10.4890549 9.5344916 10.465980 10.0420667 433 9.9756059 52 9.5006516 3688 10.4891599 9.5344916 10.465980 10.0420667 433 9.9766059 52 9.5006516 3688 10.4891599 9.5344916 10.465980 10.0420264 439 9.9766059 52 9.5006516 3688 10.4891599 9.5344916 10.465980 10.0420667 433 9.9766059 9.9766059 52 9.5006516 3688 10.4891599 9.5344916 10.465980 10.04	27	9.5003421					10.4767411	10.0229168		9.9770832	33
30   9.5014764   3774   10.4989013   9.5249199   4200   10.475901   10.0230434   423   9.769566   328   9.5022308   3770   10.4977692   9.5253589   4194   10.475605   10.0230434   423   9.769566   328   9.5022308   3767   10.4977692   9.5253589   4194   10.4746411   10.0231290   424   9.768720   425   9.502308   3759   10.4976692   9.5261366   4184   10.4738034   10.0231280   425   9.9768720   426   9.5063597   3756   10.4966403   9.5261366   4184   10.4738034   10.0232128   425   9.9767872   427   9.5076722   428   9.766273   4187   10.4723850   10.0232128   425   9.7676722   427   9.7676722   428   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7667872   429   9.7666977   429   9.5085850   3741   0.4951402   9.5288563   4174   0.4723480   410.0233403   426   9.9766677   427   9.5059811   3731   0.4947616   9.5287621   4165   0.471147   10.0233423   427   9.9766374   428   9.766577   429   9.5067269   3723   10.4934638   9.529505   4165   0.4710495   10.0235694   428   9.766308   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766486   428   9.766487   428   9.766577   428   428   9.766577   428   428   9.766577   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428   428   9.766697   428	28				9.5236795		10.4763205			9.9770410	32
31   9.5018538   3770   10.4981462   9.5249395   4194   10.4750605   10.0230857   423   9.9768120   325   9.5022308   3767   10.4977692   9.5255789   4194   10.4746411   10.0231280   424   9.9768296   325   9.5033597   3765   10.4970162   9.5261966   4181   10.4738934   10.0232128   425   9.9767872   426   9.5033597   3756   10.4966403   9.5261966   4181   10.4738934   10.0232128   425   9.9767872   425   9.9767822   427   9.5048593   3745   10.4951472   9.5276682   4174   10.4738360   10.0232228   425   9.9767032   4177   10.4724851   10.4738360   10.02322978   425   9.9767032   4177   10.4724851   10.4738360   10.02322978   425   9.9767032   4177   10.4725492   10.0233403   426   9.9766597   427   9.5058938   3741   10.4951402   9.528682   4171   10.4721318   10.0233292   426   9.9766571   427   9.5056077   3734   10.4943648   9.529504   4165   10.4704653   10.0235084   427   9.9765318   4165   9.5070992   3723   10.4936488   9.529505   4165   10.4704653   10.0235094   428   9.9766494   429   9.506850   3702   10.4924589   9.5303661   4165   10.46928187   10.0235694   429   9.9766308   428   9.9766103   429   9.9766308   429	23				9.5240999		10.4759001				31
10.4971692   0.5249395   0.497692   0.5249395   0.497692   0.525389   0.497692   0.525389   0.497692   0.525389   0.497692   0.525389   0.497692   0.5261966   0.4742221   0.0231704   0.424   0.9768720   0.4966403   0.526196   0.4966403   0.5276973   0.4966403   0.5276973   0.4966403   0.5276983   0.4976914   0.5276692   0.4738034   0.0232523   0.49767471   0.4958483   0.4955147   0.5278682   0.4738034   0.0232523   0.4976610   0.5278692   0.4738034   0.0232523   0.4976610   0.5278692   0.4738034   0.0232523   0.4976610   0.5287021   0.471711   0.0234622   0.9766971   0.471711   0.0234622   0.9766971   0.470814   0.470814   0.0235109   0.4905082   0.499508   0.5287021   0.4905082   0.499508   0.5050971   0.4905082   0.499508   0.5307813   0.499508   0.5307813   0.499508   0.5307813   0.499508   0.499508   0.5307813   0.499508   0.499508   0.5307813   0.499508   0.499508   0.5307813   0.499508   0.499508   0.5307813   0.499508   0.499508   0.5307617   0.4950821   0.499508   0.499508   0.499508   0.5307813   0.499508			3774			4196			423		30
34   9.5029838   3769   10.4970162   9.5261966   10.4738034   10.02321704   424   9.9768296   3769   10.4962647   9.5276130   4181   10.4738034   10.0232153   425   9.9767447   367   376   3					9.5249395	4194					29
34   9.5028383   3759   10.4970162   9.5261966   4187   10.4738934   10.0232128   425   9.9767872   35   9.5033597   3756   10.4966403   9.5260150   4181   10.4738950   10.0232593   425   9.9767472   378   10.4952647   9.5270331   4177   427   428   9.5056977   3734   10.4955147   9.5278682   4171   10.4725492   10.0233493   426   9.9766171   428   9.5056977   3734   10.4951402   9.5287021   4165   10.4717147   10.0233429   426   9.9766171   428   9.5056977   3734   10.4947661   9.5287021   4165   10.4712979   10.0234682   427   9.97657457   428   9.5056981   3731   10.4940189   9.5295347   4161   10.4708814   10.0235109   427   9.9764961   428   9.5067269   3723   10.493248   9.528536   4168   10.4704653   10.0235636   428   9.9764464   428   9.5067269   3723   10.493248   9.5305611   4161   10.4706493   10.0236821   429   9.976308   447   9.5076492   3723   10.492908   9.5307813   4168   10.4696339   10.0236392   429   9.976308   429   9.976308   429   9.976379   429   9.508285   3706   10.4917859   9.5320250   4181   10.4704653   10.0236821   429   9.976379   429   9.508285   3706   10.4914150   9.5328526   4133   10.4679750   10.0238109   430   9.976199   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5062321   430   9.5761030   430   9.9761030   430   9.9761030   430   9.9761030   430   9.9761030   430   9.9760599   430   9.5062631   430   9.5060691   430   9.5346906   4124   10.4659081   10.0230823   431   9.9761050   431   9.9760167   431   432   432   9.5104343   432   9.5346906   4124					9.5255569	4190	10.4740411				28 27
36   9.5037365   3756   10.4966403   9.5266150   4181   10.4733850   10.0232553   425   9.9767022   375   3752   10.4952647   9.5278682   4174   10.4725492   10.0233829   426   9.9766597   3753   3745   10.4951402   9.5282653   4171   10.4721318   10.0233829   426   9.9766571   427   9.5056077   3734   10.4947661   9.5282653   4168   10.4717147   10.0233829   426   9.97665171   427   9.5056077   3734   10.4947661   9.5287021   4165   4167   416	34	9.5029838		10.4970162		4187					26
37   3.05   3.05   3.752   10.4962647   3.270331   4177   10.4725469   10.0233829   426   9.9766597   3.752   10.4955147   9.5278682   4171   10.4721318   10.0233829   426   9.9766171   427   427   9.5056077   428   9.5063542   3731   10.4940189   9.5295347   4165   10.4708314   10.0235109   427   9.9765318   428   429   9.9766171   429   9.5056077   3731   10.4940189   9.5295347   4165   10.4708314   10.0235109   427   9.9765318   428   429   9.9765318   429   9.9765318   429   9.9765318   429   9.9765318   429   9.9763688   4161   10.4708314   10.0235109   427   9.9764891   429   9.5063542   3727   10.4936488   9.5295505   4166   10.4704653   10.0235636   428   9.9764664   428   9.50704712   3716   10.4925288   9.5311961   4165   10.4688039   10.0235692   429   9.9763688   429   9.9763788				10.4966403	9.5266150	4184	10.4733850	10.0232553		9.9767447	25
37   9.5041105   3748   10.4958295   9.5274508   4174   10.4725492   10.0233403   426   9.9766597   374   10.4951402   9.5282653   4171   10.4721318   10.0233425   427   9.9766571   418   10.495167   3734   10.4947661   9.5287021   4165   10.4711979   10.023425   427   9.9765745   427   9.5052338   3748   10.4947661   9.5287021   4165   10.4712979   10.0234628   427   9.9765318   427   9.9764891   428   9.5059811   3731   10.4940189   9.5295347   4168   10.4704653   10.4925566   427   9.9764891   428   9.5057492   3727   10.4932731   9.5303661   4166   4162   10.470495   10.0235696   428   9.9763608   428   9.5074712   3716   10.4925988   9.5811961   4146   10.4689393   10.0236929   429   9.976308   429   9.976308   429   9.976308   429   9.976308   429   9.9763179   429   9.508281   429   9.508281   429   9.508281   429   9.508281   429   9.508281   429   9.5763189   428	36	9.5037353		10.4962647	9.5270331		10.4729669	10.0232978		9.9767022	24
38 9.5048598 3744 10.4951402 9.528363 4168 10.47121318 10.0233425 427 9.9765745 40 9.5052339 3738 10.4947661 9.528362 4165 10.4712979 10.0234682 427 9.9765745 427 9.9765491 10.49506877 3734 10.4947661 9.529136 4165 10.4708314 10.0235109 427 9.9765493 10.490189 9.529136 4161 10.4704653 10.0235536 428 9.9764694 44 9.5067269 3727 10.4936458 9.5295347 4158 10.470495 10.0235964 428 9.9764694 44 9.5067269 3723 10.4932731 9.5303661 10.490189 9.5307813 4168 10.4700495 10.0235964 428 9.9764036 428 9.5074712 3716 10.4925089 9.5307813 4148 10.4683893 10.0236529 429 9.9763179 429 9.5078428 3713 10.4921572 9.5316107 4148 10.4683893 10.0237679 429 9.9763179 429 9.5078428 3713 10.4921572 9.5316107 4148 10.4683893 10.0237679 429 9.9763179 4148 10.4683893 10.0237679 429 9.9762750 4149 9.5085856 3702 10.4914759 9.5320526 4139 10.4673750 10.0238109 430 9.9761891 429 9.5085856 3698 10.4906742 9.5332659 4139 10.467341 10.0238870 431 9.9761030 431 9.9761030 431 9.5761030 431				10.4958895			10.4725492			9,9766597	23
10.491761   9.505239					9.5278682						22
41   9.50559811   3734   10.4943923   9.5291186   4161   10.4708814   10.0235109   427   9.9764891   43   9.5053542   3731   10.4936458   9.5295367   4158   10.4704653   10.0235563   428   9.9764634   4461   10.4704653   10.0235692   428   9.9764636   4462				10.4951402		4168					21 20
42   9.5058811   3731   10.4940189   9.5295347   4168   10.4704653   10.0235636   428   9.9764464   428   9.5063542   3727   10.4936458   9.5299505   4166   10.4704653   10.02356964   428   9.9764066   428   9.50764766   428   9.50764066   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5076406   428   9.5083179   429   9.576308   428   9.5083179   429   9.576308   428   9.5083179   429   9.5763179   429   9.5762750   429				10.4943923							19
43   9.5063542   3727   10.4936458   9.5299505   4166   10.4700495   10.0235964   428   9.9763608   429   9.9763608   420   420	42	9.5059811				ł					18
44   9.5067269   3723   10.4932731   9.5303661   4152   10.4663393   10.0236392   429   9.9763608   429   9.5763709   46   9.5074712   3716   10.4925288   9.5311961   4143   10.4663839   10.0237250   429   9.9763709   47   9.5078428   3713   3713   10.4921572   9.5311610   4143   10.4663839   10.0237250   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762750   429   9.9762751   429   9.9761891   429   9.5083565   4139   4137   413	43	9.5063542		10.4936458	9.5299505		10,4700495	10.0235964			17
46   9.5074712   3716   10.4925088   9.5307813   4148   10.4692187   10.0236821   429   9.9763179   429   9.9762750   429   9.9762321   429   9.9761891				10.4932731	9.5303661		10.4696339	10.0236392		9.9763608	16
47   9.5078428   3716   10.4921572   9.516107   4143   10.4683893   10.0237679   429   9.9762321   48   9.5082141   3713   10.4921572   9.5320250   4143   10.4663893   10.0237679   430   9.9762321   489   9.508285   3706   10.4914150   9.5328526   4133   10.4671474   10.0238539   431   9.9761630   51   9.5098256   3702   10.491444   9.5328526   4133   10.4671474   10.0238539   431   9.9761030   328   32					9.5307813		10.4692187	10.0236821		9.9763179	15
48   9.5082141   3709   10.4917439   9.5320250   4139   10.4679750   10.0238109   430   9.9761891   10.491644   9.5328389   4137   10.4675611   10.0238599   431   9.9761461   10.938593   10.4916444   9.5332659   4133   10.467741   10.0238970   431   9.9761030   431   9.9761030   432   9.9761030   433   9.9761030   434   434   434   435						4146	10.4688039	10.0237250		9.9762750	14 13
49   9.5085850   3706   10.4914150   9.5324389   4137   10.4671611   10.0238539   431   9.9761461   51   9.5093568   3702   10.4906742   9.5326529   4133   10.4671474   10.0238539   431   9.9761030   52   9.5096956   3638   10.4903044   9.5336789   4130   10.4667341   10.0239401   432   9.9760599   4137   10.4663211   10.0239833   431   9.9760599   4137   10.4659081   10.0239833   431   9.9760599   4137   10.4659081   10.0239833   431   9.9760599   4137   10.4659081   10.0239833   431   9.9760599   4137							10.4679750				12
50 9.5089556 3702 10.4910444 9.5328526 4133 10.4671474 10.0238970 431 9.9761030 10.5093258 3698 10.4903044 9.533659 4130 10.4667341 10.0239401 432 9.9760599 10.490504 9.5346916 10.499549 9.5346916 10.4659084 10.0239401 432 9.9760167 10.4659084 10.0239403 431 9.9760167 10.465910 10.4659084 10.0239401 432 9.9759736 10.499169 9.5345040 4124 10.4654960 10.0240697 433 9.9759736 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.0240697 10.4659084 10.4659084 10.4659084 10.4659084 10.0240697 10.4659084 10.465908	40	9.5085850									11
51 9.5093258 3698 10.4906742 9.5332659 4133 10.4667341 10.0239401 439 9.9760699 82 9.5096956 3695 10.4903044 9.5336789 4197 10.4663211 10.0239403 431 9.9760167 83 9.5100651 3692 10.499349 9.5340916 4124 10.4654960 10.0240697 433 9.9759736 10.4891697 9.5345040 4121 10.4654960 10.0240697 433 9.9759736 10.489169 9.5349161 4121 10.4654960 10.0240697 433 9.9759736 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9759736 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9759736 10.4891969 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.4654960 10.0240697 33 9.9758730 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 10.489169 9.5349161 4121 4121 4121 4121 4121 4121 4121 4											10
52         9.5096956         3695         10.4903044         9.5336789         110.4663211         10.0239833         331         9.9760167           53         9.5100313         3692         10.4899349         9.5340916         4127         10.4659281         10.0240264         433         9.9759736           55         9.5108031         3688         10.4891567         9.5346040         4121         10.4654960         10.0240667         433         9.9759303           55         9.5108031         3688         10.4891969         9.5349161         4121         10.46549839         10.024139         9.9758930	51			10.4906742	9.5332659		10.4667341	10.0239401			9
54 9.5104343 3688 10.4893657 9.5345040 4121 10.4654960 10.0240667 433 9.9759303 555 9.5108031 3688 10.489369 9.5345040 4121 10.4654960 10.0240667 433 9.9758930 9.9758930 10.0241130 9.9758930 10.0241					9.5336789		10.4663211				8
55 9.5108031 3688 10.4891969 9.5349161 4121 10.4650839 10.0941130 433 9.9758870										9.9759736	6
56 9.5111716 3685 10.4889284 9.5353278 4117 10.4650839 10.0241130 433 9.9758870 10.4646722 10.0241563 433 9.9758437			<b>3688</b>			4121			433		
	56										5
57 9.5115397 3677 10.4884603 9.5357393 4119 10.4642607 10.0241996 434 9.9758004	56 57	9.5115397	3681		9.5357393	4115			433		3
58   9.5119074   3675   10.4880926   9.5361505   4119   10.4638495   10.0242430   435   9.9757570	58			10.4880926	9.5361505	4112	10.4638495	10.0242430		9.9757570	2
59   9.5122749   3670   10.4877251   9.5365613   4106   10.4634387   10.0242865   424   9.9757135					9.5365613					9.9757135	1
10.46/3081 9.5369/19 10.4630281 10.0243299 9.9/26/01						<b> </b>					0
The state of the s	<del></del> '		DII.	Becant.	Co-tang.	, ng.	Tangent.	CO-secant.	Dif.	Sine,	
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-	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	<del>-</del>
0	9.5126419		10.4873581	9.5369719		10.4630281	10.0243299		9.9756701	60
ĭ	9.5130086	3667	10.4869914	9.5373821	4102	10.4626179	10.0243235	436	9.9756265	59
2	9.5133750	3664 3660	10.4866250	9.5377920	4099	10.4622080	10.0244170	435 436	9.9755830	58
3	9.5137410	3657	10.4862590	9.5382017	4093	10.4617983	10.0244606	437	9.9755394	57
4. 5	9.5141067 9.5144721	3654	10.4858933 10.4855279	9.5386110 9.5390200	4090	10.4613890 10.4609800	10.0245043 10.0245479	436	9.9754957 9.9754521	56 55
6	9.5148371	3650	10,4853279	9.5394287	4087	10.4605713	10.0245419	438	9.9754083	54
7		3646			4084			437		
8	9.5152017 9.5155660	3643	10.4847983 10.4844340	9.5398371 9.5402453	4082	10.4601629 10.4597547	10.0246354 10.0246792	438	9.9753646 9.9753208	53 52
9	9.5159300	3640	10.4840700	9.5406531	4078	10.4593469	10.0247231	439	9.9752769	51
10	9.5162936	3636 3633	10.4837064	9.5410606	4075 4072	10.4589394	10.0247670	439 439	9.9752330	50
11	9.5166569	3629	10.4833431	9.5414678	4069	10.4585322	10.0248109	440	9.9751891	49
12	9.5170198	3626	10.4329802	9.5418747	4066	10.4581253	10.0248549	440	9.9751451	48
13	9.5173824	3623	10.4826176	9.5422813	4064	10.4577187	10.0248989	441	9.9751011	47
14	9.5177447	3619	10.4822553	9.5426877	4060	10.4573123	10.0249430	441	9.9750570	46
15	9.5181066 9.5184682	3616	10.4818934 10.481 <b>5</b> 318	9.5430937 9.5434994	4057	10.4569063 10.4565006	10.0249871 10.0250312	441	9.9750129 9.9749688	45
17	9.5188295	3613	10.4811705	9.5439048	4054	10.4560952	10.0250754	442	9.9749246	48
18	9.5191904	3609	10.4808096	9.5443100	4052	10.4556900	10.0251196	442	9.9748804	42
19	9.5195510	3606	10.4804490	9.5447148	4048	10.4552852	10.0251639	443	9.9748361	41
20	9.5199112	3602 3599	10.4800883	9.5451193	4045 4043	10.4548807	10.0252082	443 443	9.9747918	40
21	9.5202711	<b>35</b> 96	10.4797289	9.5455236	4040	10.4544764	10.0252525	444	9.9747475	39
22 23	9.5206307 9.5209899	3592	10.4793693	9.5459276	4036	10.4540724 10.4536688	10.0252969 10.0253413	444	9.9747031	38 37
24	9.5213488	3589	10.4790101 10.4786512	9.5463312 9.5467346	4034	10.4532654	10.0253413	445	9.9746587 9.9746142	36
25	9.5217074	3586		<del></del>	4031			445		
26	9.5220656	3582	10,4782926 10.4779344	9.5471377 9.5475405	4028	10.4528623 10.4524595	10.0254303 10.0254748	445	9.9745697 9.9745252	35 34
27	9.5224235	3579	10.4775765	9.5479430	4025	10.4520570	10.0255194	446	9.9744806	33
28	9.5227811	3576 3572	10.4772189	9.5483452	4022 4019	10.4516548	10.0255641	447 446	9.9744359	33 32
29 30	9.5231383	3570	10.4768617	9.5487471	4016	10.4512529	10.0256087	447	9.9743913	31
	9.5234953	3565	10.4765047	9.5491487	4013	10.4508513	10.0256534	448	9.9743466	30
31	9.5238518	3563	10.4761482	9.5495500	4011	10.4504500	10.0256982	448	9.9743018	29
32 33	9.5242081 9.5245640	3559	10.4757919 10.4754360	9.5499511	4008	10.4500489 10.4496481	10.0257430	448	9.9742570	28
34	9.5249196	3556	10.4750804	9.5503519 9.5507523	4004	10.4492477	10.0257878 10.0258327	449	9.9742122 9.9741673	27 26
35	9.5252749	3553 3549	10.4747251	9.5511525	4002 3999	10.4488475	10.0258776	449 450	9.9741224	25
36	9.5256298	3546	10.4743702	9.5515524	3997	10.4484476	10.0259226	450	9.9740774	24
37	9.5259844	3543	10.4740156	9.5519521	3993	10.4480479	10.0259676		9.9740324	23
38	9.5263387	3540	10.4736613	9.5523514	3990	10.4476486	10.0260127	451 451	9.9739873	22
39 40	9.5266927 9.5270463	3536	10.4733073	9.5527504	3988	10.4472496	10.0260578	451	9.9739422	21
41	9.5273997	3534	10.4729537 10.4726003	9.5531492 9.5535477	3985	10.4468508 10.4464523	10.0261029 10.0261481	452	9.9738971 9.9738519	20 19
42	9.5277526	3529	10.4722474	9.5539459	3982	10.4460541	10.0261933	452	9.9738067	18
43	9.5281053	3527	10.4718947	9.5543438	3979	10.4456562	10.0262385	452	9.9737615	_
44	9.5284577	3524 3520	10.4715423	9.5547415	3977	10.4450502	10.0262838	453	9.9737162	17 16
45	9.5288097	3517	10.4711903	9.5551388	3973 3971	10.4448612	10.0263291	453 454	9.9736709	15
46	9.5291614	3514	10.4708386	9.5555359	3968	10.4444641	10.0263745	454	9.9736255	14
48	9.5295128 9.5298638	3510	10.4704872 10.4701362	9.5559327 9.5563292	3965	10.4440673 10.4436708	10.0264199 10.0264654	455	9.9735801 9.9735346	13 12
II I		3508			3963			455		-
49 50	9.5302146 9.5305650	3504	10.4697854 10.4694350	9.5567255 9.5571214	3959	10.4432745 10.4428786	10.0265109 10.0265565	456	9.9734891 9.9734435	111
51	9.5309151	3501	10.4690849	9.5575171	3957	10.4424829	10.0266020	455	9.9733980	10
52	9.5312649	3498 3494	10.4687351	9.5579125	3954 3952	10.4420875	10.0266477	457 456	9.9733523	8
53	9.5316143	3492	10.4683857	9.5583077	3948	10.4416923	10.0266933	457	9.9733067	7
54	9.5319635	3488	10.4680365	9.5587025	3946	10.4412975	10.0267390	458	9.9732610	6
55	9.5323123	3485	10.4676877	9.5590971	3943	10.4409029	10.0267848	458	9.9732152	5
56 57	9.5326608 9.5330090	3482	10,4673392 10.4669910	9.5594914 9.5598854	3940	10.4405086 10.4401146	10.0268306 10.0268764	458	9.9731694 9.9731236	3
58	9.5333569	3479	10.4666431	9.5602792	3938	10.4397208	10.0269223	459	9.9730777	2
59	9.5337044	3475 3473	10.4662956	9.5606727	3935 3932	10.4393273	10.0269682	459 460	9.9730318	1
60	9.5340517	0210	10.4659483	9.5610659	0302	10.4389341	10.0270142	100	9.9729858	0
/	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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-	Sinc.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	17
10	9.5340517		10.4659483	9.5610659		10.4389341	10.0270142	450	9.9729858	60
Ĭ,	9.5343986	3469	10.4656014	9.5614588	3929	10.4385412	10.0270602	460 460	9.9729398	59
2	9.5347452	3466 3463	10.4652548	9.5618515	3927 3924	10.4381485	10.0271062	461	9.9728938	58
3	9.5350915	3460	10.4649085	9.5622439	3921	10.4377561	10.0271523	461	9.9728477	57
4	9.5354375	3457	10.4645625	9.5626360	3918	10.4373640	10.0271984	462	9.9728016	56
5 6	9.5357832 9.5361286	3454	10.4642168 10.4638714	9.5630278 9.5634194	3916	10.4369722	10.0272446 10.0272908	462	9.9727554 9.9727092	55 54
		3451			3913			463		-
7	9.5364737	3447	10.4635263	9.5638107	3911	10.4361893	10.0273371	463	9.9726629	53
8 9	9.5368184	3445	10.4631816	9.5642018	3907	10.4357982	10.0273834	463	9.9726166	522
10	9.5371629 9.5375070	3441	10.4628371 10.4624930	9.5645925 9.5649831	3906	10.4354075 10.4350169	10.0274207	464	9.9725708 9.9725 <del>23</del> 9	51 50
ii	9.5378508	3438	10.4621492	9.5653733	3902	10.4346267	10.0275225	464	9.9724775	49
12	9.5381943	3435	10.4618057	9.5657633	3900	10.4342367	10.0275690	465	9.9724310	48
_		3432		0.5551500	3897			465		47
13 14	9.5385375 9.5388804	3429	10.4614625 10.4611196	9.5661530 9.5665424	3894	10.4338470 10.4334576	10.0276155 10.0276620	465	9.9723845 9.9723380	47 46
15	9.5392230	3426	10.4607770	9.5669316	3892	10.4330684	10.0277086	466	9.9722914	45
16	9.5395653	3423	10.4604347	9.5673205	3889	10.4326795	10.0277552	466	9.9722448	44
17	9.5399073	3420 3416	10.4600927	9.5677091	3886 3884	10.4322909	10.0278019	467 467	9.9721981	43
18	9.5402489		10.4597511	9.5680975		10.4319025	10.0278486	467	9.9721514	42
19	9.5405903	3414	10.4594097	9.5684856	3881	10.4315144	10.0278953		9.9721047	41
20	9.5409314	3411 3407	10.4590686	9.5688735	3879	10.4311265	10.0279421	468	9.9720579	40
21	9.5412721	3405	10.4587279	9.5692611	3876 3873	10.4307389	10.0279890	469 468	9.9720110	39
22	9.5416126	3401	10.4583874	9.5696484	3871	10.4303516	10.0280358	470	9.9719642	38
23	9.5419527	3399	10.4590473	9.5700355	3868	10.4299645	10.0280828	469	9.9719172	37
24	9.5422926	3395	10.4577074	9.5704223	3865	10,4295777	10.0281297	470	9.9718703	36
25	9.5426321	8392	10.4573679	9.5708088	3863	10.4291912	10.0281767	471	9.9718233	35
26	9.5429713	3390	10.4570287	9.5711951	3860	10.4288049	10.0282238	471	9.9717762	34
27 28	9.5433103	3386	10.4566897	9.5715811	3858	10.4284189	10.0282709	471	9.9717291	33
20	9.5436489 9.5439873	3384	10.4563511 10.4560127	9.5719669 9.5723524	3855	10.4280331 10.4276476	10.0283180 10.0283652	472	9.9716820 9.9716348	32 31
30	9.5443253	3380	10.4556747	9.5727377	3853	10.4272623	10.0284124	472	9.9715876	30
		3377			3850			472		_
31 32	9.5446630	3375	10.4553370	9.5731227	3847	10.4268773	10.0284596	473	9.9715404 9.9714931	29
33	9.5450005 9.54 <b>5337</b> 6	3371	10.4549995 10.4546624	9.5735074 9.5738919	3845	10.4264926 10.4261081	10.0285069 10.0285543	474	9.9714457	28 27
34	9.5456745	3369	10.4543256	9.5742761	3842	10.4257239	10.0286016	473	9.9713984	26
35	9.5460110	3365 3362	10.4539890	9.5746601	3840 3837	10.4253399	10.0286491	475 474	9.9713509	25
36	9.5463472		10.4536528	9.5750438		10.4249562	10.0286965		9.9713035	24
37	9.5466832	3360	10.4533168	9.5754272	3834	10.4245728	10.0287440	475	9.9712560	23
38	9.5470189	3357	10.4529811	9.5758104	3832	10.4241896	10.0287916	476	9.9712084	22
39	9.5473542	3353 3351	10.4526458	9.5761934	3830	10.4238066	10.0288392	476	9.9711608	21
40	9.5476893	3347	10.4523107	9.5765761	3827 3824	10.4234239	10.0288868	476 477	9.9711132	20
41	9.5480240	3345	10.4519760	9.5769585	3822	10.4230415	10.0289345	477	9.9710655	19
42	9.5483585	3342	10.4516415	9.5773407	3819	10.4226593	10.0289822	477	9.9710178	18
43	9.5486927	3339	10.4513073	9.5777226	3817	10.4222774	10.0290299	478	9.9709701	17
44	9.5490266	3336	10.4509734	9.5781043	3815	10.4218957	10.0290777	479	9.9709223	16
45	9.5493602 9.5496935	3333	10.4506398	9.5784858	3811	10.4215142	10.0291256	479	9.9708744	15
47	9.5500265	3330	10.4503065 10.4499735	9.5788669 9.5792479	3810	10.4211331 10.4207521	10.0291735 10.0292214	479	9.9708265 9.9707786	14 13
48	9.5503592	3327	10.4496408	9.5796286	3807	10.4207521	10.0292694	480	9.9707306	12
49		3324			3804			480		
50	9.5506916 9.5510237	3321	10.4493084 10.4489763	9.5800090 9.5803892	3802	10.4199910	10.0293174 10.0293654	480	9.9706826 9.9706346	11 10
51	9.5513556	3319	10.4486444	9.5807691	3799	10.4196108 10.4192 <b>3</b> 09	10.0293634	481	9.9705865	9
52	9.5516871	3315	10.4483129	9.5811488	3797	10.4188512	10.0294617	482	9.9705383	8
53	9.5520184	3313 3310	10.4479816	9.5815282	3794 3792	10.4184718	10.0295098	481 483	9.9704902	7
54	9.5523494		10.4476506	9.5819074		10.4180926	10.0295581		9.9704419	6
55	9.5526801	3307	10.4473199	9.5822864	3790	10.4177136	10.0296063	482	9.9703937	5
56	9.5530105	3304	10.4469895	9.5826651	3787	10.4173349	10.0296546	483	9.9703454	4
57	9.5533406	3301 3298	10.4466594	9.5830435	3784 3782	10.4169565	10.0297030	484 484	9.9702970	3
58	9.5536704	3295	10.4463296	9.5834217	3780	10.4165783	10.0297514	484	9.9702486	2
<i>5</i> 9	9.5539999 9.5543292	3293	10.4460001	9.5837997	3777	10.4162003	10.0297998 10.0298483	485	·9.9702002 9.9701517	0
	3.0010292	l	10.4456708	9.5841774		10.4158226				
4	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	′
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	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.5543292	9900	10.4456708	9.5841774	2005	10.4158226	10.0298483	485	9.9701517	60
1	9.5546581	3289 3287	10.4453419	9.5845549	3775 3772	10.4154451	10.0298968	485	9.9701032	59
2	9.5549868	3284	10.4450132	9.5849321	3770	10.4150679	10.0299453	486	9.9700547	<i>5</i> 8
3	9.55531 <i>5</i> 2 9.5556433	3281	10.4446848 10.4443567	9.5853091 9.5856859	3768	10.4146909 10.4143141	10.0299939 10.0300426	487	9.9700061 9.9699574	57 56
4 5	9.5559711	3278	10.4440289	9.5860624	3765	10.4139376	10.0300913	487	9.9699087	55
6	9.5562987	3276	10.4437013	9.5864386	3762	10.4135614	10.0301400	487	9.9698600	54
7	9.5566259	3272	10.4433741	9.5868147	3761	10.4131853	10.0301888	488	9.9698112	53
8	9.5569529	3270	10.4430471	9.5871904	3757	10.4128096	10.0302376	488	9.9697624	52
9	9.5572796	3267	10.4427204	9.5875660	3756	10.4124340	10.0302864	488	9.9697136	51
10	9.5576060	3264 3261	10.4423940	9.5879413	3753	10.4120587	10.0303353	489 489	9.9696647	50
11	9.5579321	3258	10.4420679	9.5883163	3750 3749	10.4116837	10.0303842	490	9.9696158	49
12	9.5582579	3256	10.4417421	9.5886912	3745	10.4113088	10.0304332	491	9.9695668	48
13	9.5585835	3253	10.4414165	9.5890657		10.4109343	10.0304823	490	9.9695177	47
14	9.5589088	3250	10.4410912	9.5894401	3744 3741	10.4105599	10.0305313	491	9.9694687	46
15	9.5592338	3247	10.4407662	9.5898142	3739	10.4101858	10.0305894	492	9.9694196	45
16 17	9.5595585 9.5598829	3244	10.4407662 10.4404415 10.4401171	9.5901881 9.5905617	3736	10.4098119 10.4094383	10.0306296 10.0306788	492	9.9693704 9.9693212	44
18	9.5602071	3242	10.4397929	9.5909351	3734	10.4094565	10.0307280	492	9.9692720	42
		3239			3731			493		_
19 20	9.5605310 9.5608546	3236	10.4394690	9.5913082	3730	10.4086918	10.0307773 10.0308266	493	9.969 <b>2227</b> 9.9691 <b>73</b> 4	41
20	9.5611779	3233	10.4391454 10.4388221	9.5916812 9.5920539	3727	10.4083188 10.4079461	10.0308266	493	9.9691734	40 39
22	9.5615010	3231	10.4384990	9.5924263	3724	10.4075737	10.0309254	495	9.9690746	38
23	9.5618237	3227 3225	10.4381763	9.5927985	3722	10.4072015	10.0309748	494 495	9.9690252	37
24	9.5621462		10.4378538	9.5931705	3720	10.4068295	10.0310243	495	9.9689757	36
25	9.5624685	3223	10.4375315	9.5935423	3718	10.4064577	10.0310738		9.9689262	35
26	9.5627904	3219	10.4372096	9.5939138	3715	10.4060862	10.0311234	496 496	9.9688766	34
27	9.5631121	3217 3214	10.4368879	9.5942851	3713 3710	10.4057149	10.0311730	497	9.9688270	33
28	9.5634335	3211	10.4365665	9.5946561	3708	10.4053439	10.0312227	497	9.9687773	32
29 30	9.5637546 9.5640754	3208	10.4362454 10.4359246	9.5950269 9.5953975	3706	10.4049731 10.4046025	10.0312724 10.0313221	497	9.9687276	31
		3206			3704			498	9.9686779	30
31	9.5643960	3203	10.4356040	9.5957679	3701	10.4042321	10.0313719	498	9.9686281	29
32 33	9.5647163	3200	10.4352837 10.4349637	9.5961380	3699	10.4033620   10.4034921	10.0314217	499	9.9685783	28
34	9.5650363 9.5653561	3198	10.4346439	9.5965079 9.5968776	3697	10.4031224	10.0314716 10.0315215	499	9.968 <b>5284</b> 9.968 <b>47</b> 85	27 26
35	9.5656756	3195	10.4343244	9.5972470	3694	10.4027530	10.0315714	499 500	9.9684286	25
36	9.5659948	3192	10.4340052	9.5976162	3692	10.4023838	10.0316214		9.9683786	24
37	9.5663137	3189	10.4336863	9.5979852	3690	10.4020148	10.0316715	501	9.9683285	23
38	9.5666324	3187	10.4333676	9.5983540	3688	10.4016460	10.0317216	501	9.9682784	22
39	9.5669508	3184	10.4330492	9.5987225	3685	10.4012775	10.0317717	501 502	9.9682283	21
40	9.5672689	3181 3179	10.4327311	9.5990908	3683 3680	10.4009092	10.0318219	502	9.9681781	20
41	9.5675868	3176	10.4324132	9.5994588	3679	10.4005412	10.0318721	502	9.9681279	19
42	9.5679044	3173	10.4320956	9.5998267	3676	10.4001733	10.0319223	503	9.9680777	18
43	9.5682217	3170	10.4317783	9.6001943	3674	10.3998057	10.0319726	503	9.9680274	17
44	9.5685387	3168	10.4314613	9.6005617	3672	10.3994383	10.0320229	504	9.9679771	16
45 46	9.5688555 9.5691721	3166	10.4311445 10.4308279	9.6009289 9.6012958	3669	10.3990711 10.3987042	10.0320733	504	9.9679267	15
47	9.5694883	3162	10.4305279	9.6012938	3667	10.3983375	10.0321237 10.0321742	505	9.9678763 9.9678258	14 13
48	9.5698043	3160	10.4301957	9.6020290	3665	10.3979710	10.0322247	505	9.9677753	12
49	9.5701200	3157	10.4298800	9.6023953	3663	10.3976047	10.0322753	506		11
50	9.5704355	3155	10.4298800	9.6023953	3660	10.3976047	10.0322753	506	9.9677247 9.9676741	10
51	9.5707506	3151	10.4292494	9.6031271	3658	10.3968729	10.0323265	506	9.9676235	100
52	9.5710656	3150 3146	10.4289344	9.6034927	3656 3654	10.3965073	10.0324272	507 507	9.9675728	8
53	9.5713802	3144	10.4286198	9.6038581	3652	10.3961419	10.0324779	508	9.9675221	7
54	9.5716946	3141	10.4283054	9.6042233	3649	10.3957767	10.0325287	508	9.9674713	6
55	9.5720087	3139	10.4279913	9.6045882	3647	10.3954118	10.0325795	508	9.9674205	5
56	9.5723226	3136	10.4276774	9.6049529	3645	10.3950471	10.0326303	509	9.9673697	4
57	9.5726362	3133	10.4273638	9.6053174	3643	10.3946826	10.0326812	509	9.9673188	3
58 59	9.5729495 9.5732626	3131	10.4270505 10.4267374	9.6056817 9.6060457	3640	10.3943183 10.3939543	10.0327321 10.0327831	510	9.9672679 9.9672169	2
60	9.5735754	3128	10.4264246	9.6064096	3639	10.3935904	10.0327631	510	9.9671659	ő
		Die			Die			Die		
	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif	Sine.	1/
1	l 1°								•	80

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′	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.5735754	3126	10.4264246	9.6064096	3636	10.3935904	10.0328341	511	9.9671659	60
1 2	9.57388 <b>8</b> 0 9.5742003	3123	10.4261120 10.4257997	9.6067732 9.6071366	3634	10.3932268 10.3928634	10.0328852 10.0329363	511	9.9671148 9.9670637	59 58
3	9.5745123	3120	10.4254877	9.6074997	3631	10.3925003	10.0329875	512	9.9670125	57
4	9.5748240	3117	10.4251760	9.6078627	3630	10.3921373	10.0330386	511	9.9669614	56
5	9.5751356	3116 3112	10.4248644	9.6082254	3627 3626	10.3917746	10.0330899	513 513	9.9669101	55
6	9.5754468	3110	10.4245532	9.6085880	3623	10.3914120	10.0331412	513	9.9668588	54
7	9.5757578		10.4242422	9.6089503		10.3910497	10.0331925		9.9668075	53
8	9.5760685	3107 3105	10.4239315	9.6093124	3621 3618	10.3906876	10.0332438	513 514	9.9667562	52
10	9.5763790 9.5766892	3102	10.4236210	9.6096742	3617	10.3903258 10.3899641	10.0332952 10.0333467	515	9.966 <b>7048</b> 9.9666 <b>533</b>	51 50
ii	9.5769991	3099	10.4233108 10.4230009	9.6100359 9.6103973	3614	10.3896027	10.0333982	515	9.9666018	49
12	9.5773088	3097	10.4226912	9.6107586	3613	10.3892414	10.0334497	515	9.9665503	48
13	9.5776183	3095	10.4223817	9.6111196	3610	10.3888804	10.0335013	516	9,9664987	47
14	9.5779275	3092	10.4220725	9.6114804	3608	10.3885196	10.0335529	516	9.9664471	46
15	9.5782364	3089 3086	10.4217636	9.6118409	3605 3604	10.3881591	10.0336046	517 517	9.9663954	45
16	9,5785450	3065	10.4214550	9.6122013	3602	10.3877987	10.0336563	517	9.9663437	44
17 18	9.5788535 9.5791616	3081	10.4211465 10.4208384	9.6125615 9.6129214	3599	10.3874385 10.3870786	10.0337080 10.0337598	518	9.9662920 9.9662402	43 42
11		<b>307</b> 9			3598			518		
19 20	9.5791695 9.5797772	3077	10.4205305 10.4202228	9.6132812 9.6136407	3595	10.3867188 10.3863593	10.0338116 10.0338635	519	9.9661884 9.9661365	41 40
21	9.5800845	3073	10.4202228	9.6140000	3593	10.3860000	10.0338635	519	9.9660846	39
22	9.5803917	3072 3069	10.4196083	9.6143591	3591 3589	10.3856409	10.0339674	520 520	9.9660326	38
23	9.5806986	3066	10.4193014	9.6147180	3586	10.3852820	10.0340194	521	9.9659806	37
24	9.5810052	3064	10.4189948	9.6150766	3585	10.3849234	10.0340715	521	9.9659285	36
20	9.5813116	3061	10.4186884	9.6154351	3583	10.3845649	10.0341236	521	9.9658764	35
26 27	9.5816177 9.5819236	3059	10.4183823	9.6157934	3580	10.3842066 10.3838486	10.0341757	522	9.9658243 9.9657721	34
28	9.5822292	3056	10.4180764 10.4177708	9.6161514 9.6165093	3579	10.3834907	10.0342279 10.0342801	522	9.9657199	33 32
20	9.5825345	3053 3052	10.4174655	9.6168669	3576	10.3831331	10.0343323	522	9.9656677	31
30	9.5828397		10.4171603	9.6172243	3574	10.3827757	10.0343847	524	9.9656153	30
31	9.5831445	3048	10.4168555	9.6175815	3572	10.3824185	10.0344370	523	9.9655630	29
32	9.5834491	3046 3044	10.4165509	9.6179385	3570 3568	10.3820615	10.0344894	524 524	9.9655106	28
33 34	9.5837535	3041	10.4162465	9.6182953	3566	10.3817047	10.0345418	525	9.9654582	27
35	9.5840576 9.5843615	<b>3</b> 039	10.4159424 10.4156385	9.6186519 9.6190083	3564	10.3813481 10.3809917	10.0345943 10.0346468	525	9.9654057 9.9653532	26 25
36	9.5846651	3036	10.4153349	9.6193645	3562	10.3806355	10.0346994	526	9.9653006	24
37	9,5849685	3034	10.4150315	9.6197205	3560	10.3802795	10.0347520	<del>52</del> 6	9.9652480	23
38	9.5852716	3031	10.4147284	9.6200762	3557	10.3799238	10.0348047	527	9.9651953	22
39	9.5855745	3029 3026	10.4144255	9.6204318	3556 3554	10.3795682	10.0348574	527 527	9.9651426	21
40	9.5858771	3024	10.4141229	9.6207872	3551	10.3792128	10.0349101	528	9.9650899	20
41 42	9.5861795 9.5864816	3021	10.4138205 10.4135184	9.6211423 9.6214973	3550	10.3788577 10.3785027	10.0349629 10.0350157	528	9.9650371 9.9649843	19 18
		3019			3547			529		_
43 44	9.5867835 9.5870851	3016	10.4132165 10.4129149	9.6218520 9.6222066	3546	10.3781480 10.3777934	10.0350686 10.0351215	<b>52</b> 9	9.9649314 9.9648785	17 16
45	9.5873865	3014	10.4126135	9.6225609	3543	10.3774391	10.0351714	529	9.9648256	15
46	9.5876876	3011 3009	10.4123124	9.6229150	3541 3540	10.3770850	10.0352274	530 531	9.9647726	14
47	9.5879885 9.5882892	3007	10.4120115	9.6232690	3537	10.3767310	10.0352805	530	9.9647195	13
48		3004	10.4117108	9.6236227	3536	10.3763773	10.0353335	532	9.9646665	12
49	9.5885896	3001	10.4114104	9.6239763	3533	10.3760237	10.0353867	531	9.9646133	11
50 51	9.5888897 9.5891897	3000	10.4111103 10.4108103	9.6243296 9.6246827	3531	10.3756704 10.3753173	10.0354398 10.0354931	533	9.9645602 9.9645069	10 9
52	9.5894893	2996 2995	10.4105107	9.6250356	3529 3528	10.3749644	10.0355463	532	9.9644537	8
53	9.5897888	2992	10.4102112	9.6253884	3525	10,3746116	10.0355996	533 534	9.9644004	7
54	9.5900880	2989	10.4099120	9.6257409	3523	10.3742591	10.0356530	533	9.9643470	_6
55	9.5903869	2987	10.4096131	9.6260932	3522	10.3739068	10.0357063	535	9.9642937	5
56 57	9.5906856 9.5909841	2985	10.4093144	9.6264454	3519	10.3735546	10.0357598	534	9.9642402	4
58	9.5912823	2982	10.4090159 10.4087177	9.6267973 9.6271491	3518	10.3732027 10.3728509	10.0358132 10.0358668	536	9.9641868 9.9641332	3 2
59	9.5915803	2980 2977	10.4084197	9.6275006	3515	10.3724994	10.0359203	535	9.9640797	ĩ
60	9.5918780	4311	10.4081220	9.6278519	3513	10.3721481	10.0359739	<b>5</b> 36	9.9640261	Ō
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
	1 <b>2</b> °				·				67	70
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′_	Sine.	DK.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	DR.	Co-sine.	1
0	9.5918780	2975	10.4081220	9.6278519	3512	10.3721481	10.0359739	537	9.9640261	60
1 2	9.5921755 9.5924728	2973	10.4078245 10.4075272	9.6282031 9.6285540	3509	10.3717969 10.3714460	10.0360276 10.0360813	537	9.9639724 9.9639187	59 58
3	9.5927698	2970	10.4072302	9.6289048	3508	10.3710952	10.0361350	537 538	9.9638650	57
4	9.5930666	2968 2965	10.4069334	9.6292553	3505 3504	10.3707447	10.0361883	538	9.9638112	56
. 5 6	9.5933631 9.5936594	2963	10.4066369 10.4063406	9.6296057 9.6299558	3501	10.3703943 10.3700442	10.0362426 10.0362964	538	9.9637574 9.9637036	55 54
I I		2961			3500			540		53
7 8	9.5939555 9.5942513	2958	10.4060445 10.4057487	9.6303058 9.6306556	3498	10.3696942 10.3693444	10.0363504 10.0364043	539	9.9636496 9.9635957	52
ğ	9.5945469	2956	10.4054531	9.6310052	3496 3493	10.3689948	10.0364583	540 540	9.9635417	51
10	9.5948422	2953 2951	10.4051578	9.6313545	3492	10.3686455	10.0365123	541	9.9634877	50 49
11 12	9.5951373 9.5954322	2949	10.4048627 10.4045678	9.6317037 9.6320527	3490	10.3682963 10.3679473	10.0365664 10.0366205	541	9.9634336 9.9633795	48
1 —		2946			3488	10.3675985		542	9.9633253	47
13 14	9.5957268 9·5960212	2944	10.4042732 10.4039788	9,6324015 9,6327501	3486	10.3672499	10.0366747 10.0367289	542	9.9632711	46
15	9.5963154	2942 2939	10.4036846	9.6330985	3484 3483	10.3669015	10.0367832	543 543	9.9632168	45
16	9.5966093	2937	10.4033907	9.6334468	3490	10.3665532	10.0368375	543	9.9631625	44
17 18	9.5969030 9.5971965	2935	10.4030970 10.4028035	9.6337948 9.6341426	3478	10.3662052 10.3658574	10.0368918 10.0369462	544	9.9631082 9.9630538	42
1		2932			3477	10.3655097	10.0370006	544	9.9629994	41
19 20	9.5974897 9.5977827	2930	10.4025103 10.4022173	9.6344903 9.6348378	3475	10.3651622	10.0370006	545	9.9629449	40
21	9.5980754	2927 2925	10.4019246	9.6351850	3472 3471	10.3648150	10.0371096	545 546	9.9628904	39
22	9.5983679	2923	10.4016321	9.6355321	3469	10.3644679 10.3641210	10.0371642 10.0372188	546	9.9628358 9.9627812	38 37
23 24	9.5986602 9.5989523	2921	10.4013 <b>3</b> 98 10.4010477	9.6358790 9.6362257	3467	10.3637743	10.0372166	546	9.9627266	36
		2918			3465		10.0373281	547	9.9626719	35
25 26	9.5992441 9.5995357	2916	10.4007559 10.4004643	9.6365722 9.6369185	3463	10.3634278 10.3630815	10.0373281	547	9.9626172	34
27	9.5998270	2913 2911	10,4001730	9.6372646	3461 3460	10.3627354	10.0374376	548 548	9.9625624	33
28	9.6001181	2909	10.3998819	9.6376106	3457	10.3623894	10.0374924	549	9.9625076	32
29 30	9.6004090 9.6006997	2907	10.3995910 10.3993003	9.6379563 9.6383019	3456	10.3620437 10.3616981	10.0375473 10.0376022	549	9.9624527 9.9623978	31 30
1		2904			3454	10.3613527	10.0376572	550	9.9623428	29
31 32	9.6009901 9.6012803	2902	10.3990099 10.3987197	9.6386473 9.6389925	3452	10.3613327	10.0376572	550	9.9622878	28
33	9.6015703	2900 2897	10.3984297	9.6393375	3450 3448	10.3606625	10.0377672	550 551	9.9622328	27
34	9.6018600	2895	10.3981400	9.6396823	3446	10.3603177	10.0378223 10.0378774	551	9.9621777 9.9621226	26 25
35 36	9.6021495 9.6024388	2393	10.3978505 10.3975612	9.6400269 9.6403714	3445	10.3596286	10.0379326	552	9.9620674	24
		2890	10.3972722	9.6401156	3442	10.3592844	10.0379878	552	9.9620122	23
37 38	9.60 <b>2727</b> 8 9.60 <b>3</b> 0166	2888	10.3969834	9.6410597	3441	10.3589403	10.0380431	553 553	9.9619569	22
39	9.6033052	2886 2884	10.3966948	9.6414036	3439 3437	10.3585964	10.0380984	553	9.9619016	21
40	9.6035936	2891	10.3964064	9.6417473 9.6420908	3435	10.3582527 10.3579092	10.0381537 10.0382091	554	9.9618463 9.9617909	20 19
41 42	9.6038817 9.6041696	2879	10.3961183 10.3958304	9.6424342	3434	10.3575658	10.0382645	554	9.9617355	18
43	9.6044573	2877	10.3955427	9.6427773	3431	10.3572227	10.0383200	555	9.9616800	17
44	9.6047448	2875 2872	10.3952552	9.6431203	3430 3428	10.3568797	10.0383755	555 556	9.9616245	16
45	9.6050320	2870	10.3949680	9.6434631	3426	10.3565369	10.0384311	556	9.9615689	15
46 47	9.6053190 9.6056057	2867	10.3946810 10.3943943	9.6438057 9.6441481	3424	10.3561943 10.3558519	10.0384867 10.0385424	557	9.961 <i>5</i> 13 <b>3</b> 9.961 <b>4</b> 576	14 13
48	9.6058923	2866	10.3943943	9.6444903	3422	10.3555097	10.0385980	556	9.9614020	12
49	9.6061786	2863	10.3938214	9.6448324	3421	10.3551676	10.0386538	558	9.9613462	11
50	9.6064647	2861 2859	10.3935353	9.6451743	3419 3417	10.3548257	10.0387096	558 558	9.9612904	10
51	9.6067506	2856	10.3932494	9.6455160	3415	10.3544840	10.0387654	559	9.9612346	9
52 53	9.6070362 9.6073216	2854	10.3929638 10.3926784	9.6458575 9.6461988	3413	10.3541425	10.0388213 10.0388772	559	9.9611787 9.9611228	8 7
54	9.6076068	2852	10.3923932	9.6465400	3412	10.3534600	10.0389332	560	9.9610668	6
55	9.6078918	2850	10.3921082	9.6468810	3410	10.3531190	10.0389892	560	9.9610108	5
56	9.6081765	2847 2846	10.3918235	9.6472217	3407 3407	10.3527783	10.0390452	560 561	9.9609548	4
57	9.6084611	2843	10.3915389	9.6475624	3404	10.3524376	10.0391013	561	9.9608987 9.9608426	3 2 1
58 59	9.6087454 9.6090294	2840	10.3912546 10.3909706	9.6479028 9.6482431	3403	10.3520972	10.0391574 10.0392136	562	9.9607864	ĺ
60	9.6093133	2839	10.3906867	9.6485831	3400	10.3514169	10.0392698	562	9.9607302	ō
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	DIL.	Sine.	7
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4	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	DK.	Co-sine.	1
0	9.6093133	2836	10.3906867	9.6485831	3399	10.3514169	10.0392698	563	9.9607302	6
1	9.6095969	2834	10.3904031	9.6489230	3398	10.3510770	10.0393261	563	9.9606739	Ą
2	9.6098803	2832	10.3901197	9.6492628	3395	10.3507372	10.0393824	564	9.9606176	5
8	9.6101635 9.6104465	2830	10.3898365 10.3895535	9.64960 <b>23</b> 9.6499417	3394	10.3503977 10.3500583	10.0394388 10.0394952	564	9.9605612 9.9605048	E
5	9.6107293	2828	10.3892707	9.6502809	3392	10.3497191	10.0395516	564	9.9604484	Ě
6	9.6110118	2825	10.3889882	9.6506199	3390	10.3493801	10.0396081	565	9.9603919	Ē
7	9.6112941	2823	10.3887059	9.6509587	3388	10.3490413	10.0396646	565	9.9603354	8
8	9.6115762	2821	10.3884238	9.6512974	3387	10.3487026	10.0397212	566 566	9.9602788	ā
9	9.6118580	2818	10.3881420	9.6516359	3385 3383	10.3483641	10.0397778	567	9.9602222	5
10	9.6121397	2817 2814	10.3878603	9.6519742	3381	10.3480258	10.0398345	567	9.9601655	5
11	9.6124211	2812	10.3875789	9.6523123	3380	10.3476877	10.0398912	568	9.9601088	4
12	9.6127023	2810	10.3872977	9.6526503	3378	10.3473497	10.0399480	<i>5</i> 68	9.9600520	4
13	9.6129833	2808	10.3870167	9.6529881	3376	10.3470119	10.0400048	568	9.9599952	4
14	9.6132641	2805	10.3867359	9.6533257	3374	10.3466743	10.0400616	569	9.9599384	4
15 16	9.6135446 9.6138250	2804	10.3864554	9.6536631	3373	10.3463369	10.0401185	569	9.9598815	4
17	9.6141051	2801	10.3861750 10.3858949	9.6540004 9.6543375	3371	10.3459996 10.3456625	10.0401754 10.0402324	570	9.9598246 9.9597676	4
18	9.6143850	2799	10.3856150	9.6546744	3369	10.3453256	10.0402324	570	9.9597106	4
19	9.6146647	2797			3368			571		۱-
20	9.6149441	2794	10.3853353 10.3850559	9.6550112 9.6553477	3365	10.3449888 10.3446523	10.0403465 10.0404036	571	9.9596535 9.9595964	4
21	9.6152234	2793	10.3847766	9.6556841	3364	10.3443159	10.0404607	571	9.9595393	3
22	9.6155024	2790	10.3844976	9.6560204	3363	10.3439796	10.0405179	572	9.9594821	3
23	9.6157812	2788	10.3842183	9.6563564	3360	10.3436436	10.0405752	573	9.9594248	3
24	9.6160599	2787	10.3839401	9.6566923	3359	10.3433077	10.0406325	573	9.9593675	3
25	9.6163382	2783	10.3836618	9.6570280	3357	10.3429720	10.0406898	573	9.9593102	3
26	9.6166164	2782 2780	10.3833836	9.6573636	3356 3353	10.3426364	10.0407472	574 574	9.9592528	3
27	9.6168944	2777	10.3831056	9.6576989	3352	10.3423011	10.0408046	574	9.9591954	3
28	9.6171721	2775	10.3828279	9.6580341	3351	10.3419659	10.0408620	575	9.9591380	3
29 30	9.6174496	2774	10.3825504	9.6583692	3349	10.3416308	10.0409195	576	9.9590805	3
	9.6177270	2771	10.3822730	9.6587041	3346	10.3412959	10.0409771	576	9.9590229	3
31	9.6180041	2768	10.3819959	9.6590387	3346	10.3409613	10.0410347	576	9.9589653	2
32	9.6182809	2767	10.3817191	9.6593733	3343	10.3406267	10.0410923	577	9.9589077	2
33 34	9.6185576 9.6188341	2765	10.3814424	9.6597076	3342	10.3402924	10.0411500	577	9.9588500	2
35	9.6191103	2762	10.3811659	9.6600418	3340	10.3399582	10.0412077	578	9.9587923 9.9587345	2
36	9.6193864	2761	10.3808897 10.3806136	9.6603758 9.6607097	3339	10.3396242 10.3392903	10.0412655 10.0413233	578	9.9586767	2
		2758			3337			579		۱-
37	9.6196622	2756	10.3803378	9.6610434	3335	10.5389566	10.0413812	579	9.9586188	2
38 39	9.6199378 9.6202132	2754	10.3800622	9.6613769	3334	10.3386231	10.0414391	579	9.9585609	2
40	9.6204884	2752	10.3797868 10.3795116	9.6617103 9.6620434	3331	10.3382897 10.3379566	10.0414970	580	9.95850 <b>3</b> 0 9.9584450	2
41	9.6207634	2750	10.3792366	9.6623765	3331	10.3376235	10 0415550 10.0416131	<i>5</i> 81	9.9583869	2
42	9.6210382	2748	10.3789618	9.6627093	3328	10.3372907	10.0416712	581	9.9583288	ľ
43	9.6213127	2745	10.3786873	9.6630420	3327	10.3369580	10.0417293	581	9.9582707	1
44	9.6215871	2744	10.3784129	9.6633745	3325	10.3366255	10.0417875	582	9.9582125	ľ
45	9.6218612	2741 2739	10.3781388	9.6637069	3324 3322	10.3362931	10.0418457	582 582	9.9581543	li
46	9.6221351	2737	10.3778649	9.6640391	3320	10.3359609	10.0419039	583	9.9580961	1
47	9.6224088	2736	10.3775912	9.6643711	3319	10.3356289	10.0419622	584	9.9580378	1
48	9.6226824	2733	10.3773176	9.6647030	3316	10.3352970	10.0420206	584	9.9579794	1
49	9.6229557	2730	10.3770443	9.6650346	3316	10.3349654	10.0420790	584	9.9579210	1
50 51	9.6232287 9.6235016	2729	10.3767713	9.6653662	3313	10.3346338	10.0421374	585	9.9578626	1
52	9.6237743	2727	10.3764984 10.3762257	9.6656975	3313	10.3343025 10.3339712	10.0421959 10.0422544	585	9.9578041 9.9577456	ı
53	9.6240468	2725	10.3759532	9.6660288 9.6663598	3310	10.3336402	10.0422344	586	9.9576870	1
54	9.6243190	2722	10.3756810	9.6666907	3309	10.3333093	10.0423716	586	9.9576284	
55	9.6245911	2721	10.3754089	9.6670214	3307	10.3329786	10.0424303	587	9.9575697	-
56	9.6248629	2718	10.3751371	9,6673519	3305	10.3326481	10.0424890	587	9.9575110	1
57	9.6251346	2717 2714	10.3748654	9.6676823	3304 3303	10.3323177	10.0425478	588	9.9574522	
58	9.6254060	2712	10.3745940	9.6680126	3300	10.3319874	10.0426066	588 588	9.9573934	١
<i>5</i> 9	9.6256772 9.6259483	2711	10.3743228	9.6683426	3299	10.3316574	10.0426654	589	9.9573346	
<del>80</del> .	Co-sine.	Dif.	10.3740517 Secant.	9.6686725 Co-tang.	Dif.	10.3313275 Tangent.	10.0427243 Co-secant.	Dif.	9.9572757 Sine.	-
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1	Sinc.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.6259483	2708	10.3740517	9.6686725	3298	10.3313275	10.0427243	589	9.9572757	60
	9.6262191	2706	10.3737809	9.6690023 9.6693319	3296	10.3309977	10.0427832	590	9.9572168	59
2 3	9.6264897 9.6267601	2704	10.3735103 10.3732399	9.6696613	3294	10.3306681 10.3303387	10.0428422 10.0429012	590	9.9571578 9.9570988	58 57
4	9.6270303	2702	10.3729697	9.6699906	3293	10.3300094	10.0429603	591	9.9570397	56
5	9.6273003	2700	10.3726997	9.6703197	3291	10.3296803	10.0430194	591	9.9569806	55
6	9.6275701	2698	10.3724299	9.6706486	3289	10.3293514	10.0430785	591	9.9569215	54
7	9.6278397	2696	10.3721603	9.6709774	3288	10.3290226	10.0431377	592	9.9568623	53
8	9.6281090	2693	10.3713910	9.6713060	3286	10.3286940	10.0431970	593	9.9568030	52
9	9.6283782	2692	10.3716218	9.6716345	3285	10.3283655	10.0432563	593	9.9567437	51
10	9.6286472	2690	10.3713528	9.6719628	3283	10.3280372	10.0433156	593	9.9566844	50
11	9.6289160	2688 2685	10.3710840	9.6722910	3282 3280	10.3277090	10.0433750	594 594	9.9566250	49
12	9.6291845		10.3708155	9.6726190		10.3273810	10.0434344		9.9565656	48
13	9.6294529	2684	10.3705471	9.6729468	3278	10.3270532	10.0434939	595	9.9565061	47
14	9.6297211	2682	10.3702789	9.6732745	3277	10.3267255	10.0435534	595	9.9564466	46
15	9.6299890	2679	10.3700110	9.6736020	3275	10.3263980	10.0436130	596	9.9563870	46
16	9.6302568	2678	10.3697432	9.6739294	3274	10.3260706	10.0436726	596	9.9563274	44
17	9.6305243	2675 2674	10.3694757	9.6742566	3272 3270	10.3257434	10.0437322	596 597	9.9562678	43
18	9.6307917	2672	10.3692083	9.6745836	3269	10.3254164	10.0437919	598	9.9562081	42
19	9.6310589		10.3689411	9.6749105		10.3250895	10.0438517		9.9561483	41
20	9.6313258	2669	10.3686742	9.6752372	3267	10.3247628	10.0439114	597	9.9560886	40
21	9.6315926	2668 2665	10.3684074	9.6755638	3266 3265	10.3244362	10.0439713	599 598	9.9560287	39
22	9.6318591	2664	10.3681409	9.6758903	3262	10.3241097	10.0440311	600	9.9559689	38
23	9.6321255	2661	10.3678745	9.6762165	3261	10.3237835	10.0440911	599	9.9559089	37
24	9.6323916	2660	10.3676084	9.6765426	3260	10.3234574	10.0441510	600	9.9558490	36
25	9.6326576	2657	10.3673424	9.6768686	3258	10.3231314	10.0442110	601	9.9557890	35
26	9.6329233	2656	10.3670767	9.6771944	3257	10.3228056	10.0442711	601	9.9557289	34
27	9.6331889	2653	10.3668111	9.6775201	3255	10.3224799	10.0443312	601	9.9556688	33
28	9.6334542	2652	10.3665458	9.6778456	3253	10.3221544	10.0443913	602	9.9556087	32
29 30	9.6337194	2650	10.3662806	9.6781709	3252	10.3218291	10.0444515	603	9.9555485	31
	9.6339844	2647	10.3660156	9.6784961	3250	10.3215039	10.0445118	602	9.9554882	30
31	9.6342491	2646	10.3657509	9.6788211	3249	10.3211789	10.0445720	604	9.9554280	29
32	9.6345137	2643	10.3654863	9.6791460	3248	10.3208540	10.0446324	603	9.9553676	28
33 34	9.6 <b>34778</b> 0 9.6 <b>35642</b> 2	2642	10.3652220	9.6794708	3245	10.3205292 10.3202047	10.0446927	604	9.9553073	27
35	9.6353062	2640	10.3649578 10.3646938	9.6797953 9.6801198	3245	10.3202047	10.0447531 10.0448136	605	9.9552469 9.9551864	26 25
36	9.6355699	2637	10.3644301	9.6804440	3242	10.3195560	10.0448741	605	9.9551259	24
1 —1		2636			3242			606		1
37 38	9.6358335	2634	10.3641665	9.6807682	3239	10.3192318	10.0449347	606	9.9550653	23
39	9.6360969 9.6363601	2632	10.3639031 10.3636399	9.6810921 9.6814160	3239	10.3189079 10.3185840	10.0449953 10.0450559	606	9.9550047 9.9549441	22 21
40	9.6366231	2630	10.3633769	9.6817396	3236	10.3182604	10.0451166	607	9.9548834	20
41	9.6368859	2628	10.3631141	9.6820632	3236	10.3179368	10.0451773	607	9.9548227	19
42	9.6371484	2625	10.3628516	9.6823865	3233	10.3176135	10.0452381	608	9.9547619	18
43	9.6374108	2624	10.3625892	9.6827098	3233	10.3172902	10.0452989	608	9.9547011	17
44	9.6376731	2623	10.3623269	9.6830328	3230	10.3172902	10.0452569	609	9.9546402	16
45	9.6379351	2620 2618	10.3620649	9.6833557	3229 3228	10.3166443	10.0454207	609	9.9545793	15
46	9.6381969	2616	10.3618031	9.6836785	3226	10.3163215	10.0454816	609	9.9545184	14
47	9.6384585	2614	10.3615415	9.6840011	3225	10.3159989	10.0455426	611	9.9544574	13
48	9.6387199	2613	10.3612801	9.6843236	3223	10.3156764	10.0456037	611	9.9543963	12
49	9.6389812	2610	10.3610188	9.6846459	3222	10.3153541	10.0456648		9.9543352	11
50	9.6392422	2608	10.3607578	9.6849681	3222	10.3150319	10.0457259	611 612	9.9542741	10
51	9.6395030	2607	10.3604970	9.6852901	3219	10.3147099	10.0457871	612	9.9542129	9
52 53	9.6397637 9.6400241	2604	10.3602363	9.6856120	3218	10.3143880	10.0458483 10.0459096	613	9.9541517 9.9540904	8 7
54	9.6402844	2603	10.3599759 10.3597156	9.6859338 9.6862553	3215	10.3140662 10.3137447	10.0459709	613	9.9540291	6
		2601			3215			614		
55	9.6405445	2599	10.3594555	9.6865768	3213	10.3134232	10.0460323	614	9.9539677	5
56 57	9.6408044	2596	10.3591956	9.6868981	3211	10.3131019	10.0460937	615	9.9539063 9.9538448	3
58	9.6410640 9.6413235	2595	10.3589360 10.3586765	9.6872192 9.6875402	3210	10.3127808 10.3124598	10.0461552 10.0462167	615	9.9537833	2
59	9.6415828	2593	10.3584172	9.6878611	3209	10.3121389	10.0462782	615	9.9537218	ĩ
60	9.6418420	2592	10.3581580	9.6881818	3207	10.3118182	10.0463398	616	9.9536602	ō
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
	1 00 31110.	Lu.	, socaue.	or wante.		, Aungont.				<u></u>
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,	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	11
0	9.6418420	2589	10.3581580	9.6881818	3205	10.3118182	10.0463398	617	9.9536602	60
1	9.6421009	2587	10.3578991	9.6885023	3204	10.3114977	10.0464015	616	9.9535985	59
. 2	9.6423596 9.6426182	2586	10.3576404 10.3573818	9.6888 <b>227</b> 9.6891 <b>43</b> 0	3203	10.3111773 10.3108570	10.0464631 10.0465249	618	9.9535369 9.9534751	58 57
3 4	9.6428765	2583	10.3571235	9.6894631	3201	10.3105369	10.0465866	617	9.9534134	56
5	9.6431347	2582	10.3568653	9.6897831	3200	10.3102169	10.0466485	619	9.9533515	55
6	9.6433926	2579	10.3566074	9.6901030	3199	10.3098970	10.0467103	618	9.9532897	.54
7	9.6436504	2578	10.3563496	9.6904226	3196	10.3095774	10.0467722	619	9.9532278	53
8	9.6439080	2576	10,3560920	9.6907422	3196	10.3092578	10.0468342	620	9.9531658	52
9	9.6441654	2574 2572	10.3558346	9.6910616	3194 3193	10.3089384	10.0468962	620 620	9.9531038	51
10	9.6444226	2570	10.3555774	9.6913809	3191	10.3086191	10.0469582	621	9.9530418	50
11 12	9.6446796 9.6449365	2569	10.3553204 10.3550635	9.6917000 9.6920189	3189	10.3083000 10.3079811	10.0470203 10.0470825	622	9.9529797 9.9529175	49 48
_		2566			3189			622		
13	9.6451931	2565	10.3548069	9.6923378	3187	10.3076622	10.0471447	622	9.9528553	47
14 15	9.6454496 9.6457058	2562	10.3545504 10.3542942	9.6926565 9.6929750	3185	10.3073435 10.3070250	10.0472069 10.0472692	623	9.9527931 9.9527308	46 45
16	9.6459619	2561	10.3540381	9.6932934	3184	10.3067066	10.0473315	623	9.9526685	44
17	9.6462178	2559	10.3537822	9.6936117	3183	10.3063883	10.0473939	624	9.9526061	43
18	9.6464735	2557	10.3535265	9.6939298	3181	10.3060702	10.0474563	624	9.9525437	42
19	9.6467290	2555	10.3532710	9.6942478	3180	10.3057522	10.0475187	624	9.9524813	41
20	9.6469844	2554	10.3530156	9.6945656	3178	10.3054344	10.0475812	625 626	9.9524188	40
21	9.6472395	2551	10.3527605	9.6948833	3177 3176	10.3051167	10.0476438	626	9.9523562	39
22	9.6474945	2550 2547	10.3525055	9.6952009	3174	10.3047991	10.0477064	626	9.9522936	38
23 24	9.6477492	2546	10.3522508	9.6955183	3172	10.3044817	10.0477690	627	9.9522310	37
	9.6480038	2544	10.3519962	9.6958355	3172	10.3041645	10.0478317	628	9.9521683	36
25	9.6482582	2542	10.3517418	9.6961527	3170	10.5038473	10.0478945	627	9.9521055	35
26	9.6485124	2541	10.3514876	9.6964697	3168	10.3035303	10.0479572	629	9,9520428	34
27 28	9.6487665 9.6490203	2538	10.3512335 10.3509797	9.6967865	3167	10.3032135 10.3028968	10.0480201 10.0480829	628	9.9519799 9.9519171	33 32
29	9.6492740	2537	10.3507260	9.6971032 9.6974198	3166	10.3025303	10.0481459	630	9.9518541	31
30	9.6495274	2534	10.3504726	9.6977363	3165	10.3022637	10.0482088	629	9.9517912	30
31	9.6497807	2533	10.3502193	9.6980526	3163	10.3019474	10.0482718	630	9.9517282	29
32	9.6500338	2531	10.3499662	9.6983687	3161	10.3016313	10.0483349	631	9.9516651	28
33	9.6502868	2530	10.3497132	9.6986847	3160	10.3013153	10.0483980	631 631	9.9516020	27
34	9.6505395	2527 2525	10.3494605	9.6990006	3159 3158	10.3009994	10.0484611	632	9.9515389	26
35	9.6507920	2524	10.3492080	9.6993164	3156	10.3006836	10.0485243	633	9.9514757	25
36	9.6510444	2522	10.3489556	9.6996320	3154	10.3003680	10.0485876	632	9.9514124	24
37	9.6512966	2520	10.3487034	9.6999474	3154	10.3000526	10.0486508	634	9.9513492	23
38	9.6515486	2518	10.3484514	9.7002628	3152	10.2997372	10.0487142	634	9.9512858	22
39 40	9.6518004 9.6520521	2517	10.3481996 10.3479479	9.7005780	3150	10.2994220 10.2991070	10.0487776 10.0488410	634	9.9512224 9.9511590	21 20
41	9.6523035	2514	10.3476965	9.7008930 9.7012080	3150	10.2991070	10.0488410	634	9.9511090	19
42	9.6525548	2513	10.3474452	9.7015227	3147	10.2984773	10.0489680	636	9.9510320	18
43	9.6528059	2511	10.3471941	9.7018374	3147	10.2981626	10.0490315	635	9.9509685	17
44	9.6530568	2509	10.3469432	9.7021519	3145	10.2978481	10.0490951	636	9.9509049	16
45	9.6533075	2507 2506	10.3466925	9.7024663	31 14 31 12	10.2975337	10.0491588	637 637	9.9508412	15
46	9.6535581	2503	10.3464419	9.7027805	3141	10.2972195	10.0492225	637	9.9507775	14
47 48	9.6538084 9.6540586	2502	10.3461916	9.7030946	3140	10.2969054	10.0492862	638	9.9507138	13
		2500	10.3459414	9.7034086	3139	10.2965914	10.0493500	639	9.9506500	12
49	9.6543086	2498	10.3456914	9.7037225	3137	10.2962775	10.0494139	638	9.9505861	11
50 51	9.6545584 9.6548081	2497	10.3454416	9.7040362	3135	10.2959638	10.0494777	640	9.9505223	10
52	9.6550575	<b>3494</b>	10.3451919 10.3449425	9.7043497 9.7046632	3135	10.2956503 10.2953368	10.0495417	639	9.9504583 9.9503944	8
53	9.6553068	2493	10.3446932	9.7049765	3133	10.2950235	10.0496697	641	9.9503303	7
54	9.6555559	2491	10.344441	9.7052897	3132	10.2947103	10.0497337	640	9.9502663	6
55	9.6558048	2489	10.3441952	9.7056027	3130	10.2943973	10.0497978	641	9.9502022	5
56	9.6560536	2488	10.3439464	9.7059156	3129	10.2940844	10.0498620	642	9.9501380	4
57	9.6563021	2485 2484	10.3436979	9.7062284	3128 3126	10.2937716	10.0499262	642 643	9.9500738	3
58	9.6565505	2482	10.3434495	9.7065410	3125	10.2934590	10.0499905	643	9.9800095	2
59 60	9.6567987	2481	10.3432013	9.7068535	3124	10.2931465	10.0500548	643	9.9499452	1
-	9.6570468		10.3429532	9.7071659		10.2928341	10.0501191		9.9498909	0
1	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	'
111	16°					***************************************				380

27	yo								15	<b>2°</b>
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.6570468	2478	10.3429532	9.7071659	3122	10.2928341	10.0501191	644	9.9498809	60
1 2	9.6572946	2477	10.3427054	9.7074781	3121	10.2925219	10.0501835 10.0502479	644	9.9498165	59
3	9.6575423 9.6577898	2475	10.3424577   10.3422102	9.7077902 9.7081022	3120	10.2922098	10.0502479	645	9.9497521   9.9496876	58 57
4	9.6580371	2473	10.3419629	9.7084141	3119	10.2915859	10.0503770	646	9.9496230	56
5	9.6582842	2471	10.5417158	9.7087258	3117	10.2912742	10.0504415	645	9.9495585	55
6	9.6585312	2470	10.3414688	9.7090374	3116	10.2909626	10.0505062	647	9.9494938	54
7	9.6587780	2468	10.3412220	9.7093488	3114	10.2906512	10.0505708	646	9.9494292	53
8	9.6590246	2466	10.3409754	9.7096601	3113	10.2903399	10.0506355	647	9.9493645	52
9	9.6592710	2464	10.3407290	9.7099713	3112	10.2900287	10.0507003	648	9.9492997	51
10	9.6595173	2463 2460	10.3404827	9.7102824	3111 3109	10.2897176	10.0507651	648	9.9492349	50
11	9.6597633	2460	10.3402307	9.7105933	3108	10.2894067	10.0508300	649	9.9491700	49
12	9.6600093	2457	10.3399907	9.7109041	3107	10.2890959	10.0508949	649	9.9491051	48
13	9.6602550		10.3397450	9.7112148	1	10,2887852	10.0509598		9.9490402	47
14	9.6605005	2455 2454	10.3394995	9.7115254	3106 3104	10.2884746	10.0510248	650 651	9.9489752	46
15	9.6607459	2452	10.3392541	9.7118358	3103	10.2881642	10.0510899	651	9.9489101	45
16	9.6609911	2450	10.3390089	9.7121461	3101	10.2878539	10.0511550	651	9.9488450	44
17 18	9.6612361	2449	10.3387639	9.7124562	3100	10.2875438 10.2872338	10.0512201	652	9.9487799	43 42
II —I	9.6614810	2447	10.3385190	9.7127662	3099		10.0512853	652	9.9487147	I I
19	9.6617257	2445	10.3382743	9.7130761	3098	10.2869239	10.0513505	653	9.9486495	41
20	9.6619702	2443	10.3380298	9.7183859	3097	10.2866141	10.0514158	653	9.9485842	40
21 22	9.6622145 9.6624586	2441	10.3377855 10.3375414	9.7136956	3095	10.2863044 10.2859949	10.0514811 10.0515465	654	9.9485189 9.9484 <b>5</b> 35	39 38
23	9.6627026	2440	10.3372974	9.7140051 9.7143145	3094	10.2856855	10.0516119	654	9.9493881	37
24	9.6629464	2438	10.3370536	9.7146237	3092	10.2853763	10.0516773	654	9.9483227	36
25		2436			3092			655		I — I
26	9.6631900 9.6634335	2435	10.3368100 10.3365665	9.7149329 9.7152419	3096	10.2850671 10.2847581	10.0517428 10.0518084	656	9.94 <b>32572</b> 9.9481916	35 34
27	9.6666768	2433	10.3363232	9.7155508	3089	10.2844492	10.0518740	656	9.9481260	33
28	9.6639199	2431	10.3360801	9.7158595	3087	10.2841405	10.0519396	656	9.9480604	32
29	9.6641628	2429 2428	10.3358372	9.7161682	3087 3085	10.2838318	10.0520053	657	9.9479947	31
30	9.6644056		10.3355944	9.7164767		10.2835233	10.0520711	658	9.9479289	30
31	9.6646482	<b>242</b> 6	10.3353518	9.7167851	3084	10.2832149	10.0521369	658	9.9478631	29
32	9.6648906	2424	10.3351094	9.7170933	3082	10.2829067	10.0522027	658	9.9477973	28
33	9.6651329	2423 2420	10.3348671	9.7174014	3081 3080	10.2825986	10.0522686	659	9.9477314	27
34	9.6653749	2420	10.3346251	9.7177094	3079	10.2822906	10.0523345	659 660	9.9476655	26
35	9.6656168	2418	10.3343832	9.7180173	3078	10.2819827	10.0524005	660	9.9475995	25
36	9.6658586	2415	10.3341414	9.7183251	3076	10.2816749	10.0524665	661	9.9475335	24
37	9.6661001	2414	10.3338999	9.7186327	3075	10.2813673	10.0525326		9.9474674	23
38	9.6663415	2414	10.3336585	9.7189402	3074	10.2810598	10.0525987	661 661	9.9474013	22
39	9.6665828	2410	10.3334172	9.7192476	3073	10.2807524	10.0526648	663	9.9473352	21
40	9.6668238	2409	10.3331762	9.7195549	3071	10.2804451	10.0527311	662	9.9472689	20
41	9.6670647 9.6673054	2407	10.3329353 10.3326946	9.7198620	3070	10.2801380	10.0527973 10.0528636	663	9.9472027	19
H — 1		2405		9.7201690	3069	10.2798310		664	9.9471364	18
43	9.6675459	2404	10.3324541	9.7204759	3068	10.2795241	10.0529300	664	9.9470700	17
4	9.6677863	2402	10.3322137	9.7207827	3066	10.2792173	10.0529964	664	9.9470036	16
45 46	9.6680265 9.6682665	2400	10.3319735	9.7210893	3065	10.2789107	10.0530628 10.0531293	665	9.9469372 9.9468707	15
47	9.6685064	2399	10.3317335 10.3314936	9.7213958 9.7217022	3064	10.2786042 10.2782978	10.0531293	665	9.9468042	14 13
48	9.6687461	2397	10.3312539	9.7220085	3063	10.2779915	10.0532624	666	9.9467376	12
49	9.6689856	2395			3062			666		_
50	9.6692250	2394	10.3310144 10.3307750	9.7223147 9.7226207	3060	10.2776853 10.2773793	10.0533290 10.0533957	667	9.9466710 9.9466043	11 10
51	9.6694642	2392	10.3305358	9.7229266	3059	10.2770734	10.0534624	667	9.9465376	9
52	9.6697032	2390 2388	10.3302968	9.7232324	3058 3057	10.2767676	10.0535292	668	9.9464708	8
53	9.6699420	2387	10.3300580	9.7235381	3055	10.2764619	10.0535960	668 669	9.9464040	7
54	9.6701807	2385	10.3298193	9.7238436	3054	10.2761564	10.0536629		9.9463371	6
55	9.6704192		10.3295808	9.7241490		10.2758510	10.0537298	669	9.9462702	5
56	9.6706576	2384 2382	10.3293424	9.7244543	3053 3052	10.2755457	10.0537968	670	9.9462032	4
57	9.6708958	2382 2380	10.3291042	9.7247595	3052	10.2752405	10.0538638	670 670	9.9461362	3
58	9.6711338	2378	10.3288662	9.7250646	3049	10.2749354	10.0539308	671	9.9460692	2
59 60	9.6713716	2377	10.3286284	9.7253695	3049	10.2746305	10.0539979	672	9.9460021	1
%	9.6716093 Co-sine.	Dif.	10.3283907 Secant.	9.7256744 Co-tang.	Dif.	19.2743256 Tangent.	10.0540651 Co-secant.	DK.	9.9459349 Sinc.	<u> </u>
<u> </u>	70	w41.	Severit.	JUMBER	<i></i>	rangent.	Jo-sociat.			
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28	90								16	10
4	Sinc.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	DK.	Co-sinc.	1
0	9.6716093	2375	10.3283907	9.7256744	3047	10.2743256	10.0540651	672	9.9459349	60
1 2	9.6718468 9.6720841	2373	10.3281532 10.3279159	9.7259791 9.7262837	3046	10.2740209 10.2737163	10.0541323 10.0541995	672	9.9458677 9.9458005	59 58
3	9.6723213	2372	10.3276787	9.7265881	3044	10.2734119	10.0542668	673	9.9457332	57
4	9.6725583	2370 2369	10.3274417	9.7268925	3044	10.2731075	10.0543341	673	9.9456659	56
5	9.6727952	2367	10.3272048	9.7271967	3042 3041	10.2728033	10.0514015	674	9.9455985	55
_6	9.6730319	2365	10.3269681	9.7275008	3040	10.2724992	10.0544690	674	9.9455310	54
7	9.6732684	2363	10.3267316	9.7278048		10.2721952	10.0545364	676	9.9454636	53
8	9.6735047	2362	10.3264953	9.7281087	3039 3037	10.2718913	10.0546040	675	9.9453960	52
9	9 6737409 9.6739769	2360	10.3262591	9.7284124	3037	10.2715876	10.0546715	676	9.9453285	51
10 11	9.6742128	2359	10.3260231 10.3257872	9.7287161 9.7290196	3035	10.2712839 10.2709804	10.0547391 10.0548068	677	9.9452609 9.9451932	50 49
12	9.6744485	2357	10.3255515	9.7293230	3034	10.2706770	10.0548745	677	9.9451255	48
	0.6746940	2355			3033			678		
13 14	9.6746840 9.6749194	2354	10.3253160	9.7296263	3032	10.2703737	10.0549 <b>423</b> 10.0550101	678	9.9450577 9.9449899	47
15	9.6751546	2352	10.3250806 10.3248454	9. <b>72</b> 99295 9. <b>73</b> 02325	3030	10.2700705 10.2697675	10.0550780	679	9.9449220	46 45
16	9.6753896	2350 2349	10.3246104	9.7305354	3029	10.2694646	10.0551459	679	9.9448541	44
17	9.6756245	2347	10.3243755	9.7308383	3029	10.2691617	10.0552138	679 680	9.9447862	43
18	9.6758592	2345	10.3241408	9.7311410	3027	10.2688590	10.0552818	681	9.9447182	42
19	9.6760937	2344	10.3239063	9.7314436	3026	10.2685564	10.0553499		9.9446501	41
29	9.6763281	2342	10.3236719	9.7317460	3024	10.2682540	10.0554179	680	9.9445821	40
21	9.6765623	2340	10.3234377	9.7320484	3024 3022	10.2679516	10.0554861	682	9.9445139	39
22	9.6767963 9.6770302	2339	10.3232037	9.7323506	3021	10.2676494	10.0555543	682	9.9444457	38
23 24	9.6772640	2338	10.3229698	9.7326527	3020	10.2673473	10.0556225	683	9.9443775 9.9443092	37
II 1		2335	10.3227360	9.7329547	3019	10.2670453	10.0556908	683		36
25	9.6774975	2334	10.3225025	9.7332566	3018	10.2667434	10.0557591	684	9.9449409	35
26 27	9.6777309 9.6779642	2333	10.3222691	9.7335584	3017	10.2664416	10.0558275	684	9:9441725	34
28	9.6781972	2330	10.3220358 10.3218028	9.7338601 9.7341616	3015	10.2661399 10.2658384	10.0558959 10.0559644	685	9.9441041 9.9440356	33 32
	9.6784301	2329 2328	10.3215699	9.7344631	3015	10.2655369	10.0560329	685	9.9439671	31
29 30	9.6786629	2326	10.3213371	9.7347644	3013	10.2652356	10.0561015	686	9.9438985	30
31	9.6788955		10.3211045	9.7350656	3012	10.2649344	10.0561701	686	9.9438299	29
32	9.6791279	2324 2323	10.3208721	9.7353667	3011	10.2646333	10.0562388	687	9.9437612	28
33	9.6793602	2321	10.3206398	9.7356677	3010	10.2643323	10.0563075	687 687	9.9436925	27
34	9.6795923	2320	10.3204077	9.7359685	3008 3008	10.2640315	10.0563762	689	9.9436238	26
35	9.6798243 9.6800560	2317	10.3201757	9.7362693	3006	10.2637307	10.0564451	688	9.9435549	25
36		2317	10.3199440	9.7365699	3006	10.2634301	10.0565139	689	9.9434861	24
37	9.6802877	2314	10.3197123	9.7368705	3004	10.2631295	10.0565828	690	9.9434172	23
38	9.6805191	2313	10.3194809	9.7371709	3003	10.2628291	10.0566518	690	9.9433482	22
39 40	9.6807504 9.6809816	2312	10.3192496	9.7374712	3002	10.2625288	10.0567208	690	9.9432792 9.9432102	21 20
41	9.6812126	2310	10.3190184 10.3187874	9.7377714 9.7380715	3001	10.2622286 10.2619285	10:0567898 10:0568589	691	9.9431411	19
42	9.6814434	2308	10.3185566	9.7383714	2999	10.2616286	10.0569280	691	9.9430720	18
43	9.6816741	2307			2999			692		
44	9.6819046	2305	10.3183259 10.3180954	9.7386713 9.7389710	2997	10.2613287 10.2610290	10.0569972 10.0570665	693	9.9430028 9.9429335	17 16
45	9.6821349	2303 2302	10.3178651	9.7392707	2997	10.2607293	10.0571357	692	9.9428643	13
46	9.6823651	2301	10.3176349	9.7395702	2995	10.2604298	10.0572051	694	9.9427949	14
47	9.6825952	2298	10.3174048	9.7398696	2994 2993	10,2601304	10.0572745	694	9.9427256	13
48	9.6828250	2298	10.3171750	9.7401689	2992	10.2598311	10.0573439	695	9.9426561	12
49	9.6830548	2295	10.3169452	9.7404681		10.2595319	10.0574134	695	9.9425866	n
50	9.6832843	2294	10.3167157	9.7407672	2991 2990	10.2592328	10.0574829	695	9.9425171	10
51	9.6835137 9.6837430	2293	10.3164863	9.7410662	2988	10.2589338	10.0575524	697	9.9424476	9
52 53	9.6839720	2290	10.3162570 10.3160280	9.7413650	2988	10.2586350	10.0576221	696	9.9423779 9.9423083	8 7
54	9.6842010	2290	10.3157990	9.7416638 9.7419624	2986	10.2583362 10.2580376	10.0576917 10.0577614	697	9.9422386	6
H I	9.6814297	2287			2985			698		- 1
55 56	9.6846583	2286	10.3155703	9.7422609	2985	10.2577391	10.0578312	698	9.9421688	5
57	9.6848868	2285	10.3153417 10.3151132	9.7425594 9.7428577	2983	10.2574406 10.2571423	10.0579010	699	9.9420990 9.9420291	3
58	9.6851151	2283 2281	10.3148849	9.7431559	2982	10.2568441	10.0580408	699	9.9419592	2
59	9.6853432	2281	10.3146568	9.7434540	2981 2980	10.2565460	10.0581107	699 700	9.9418893	ĩ
60	9.6855712	*****	10.3144288	9.7437520	2300	10,2562480	10.0581807	Ι /ω	9.9418193	0
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	-
1,1	re <sub>o</sub>							·	6	1.

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<u>'</u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.6855712	2279	10.3144288	9.7437520	2979	10.2562480	10.0581807	701	9.9418193	60
1 2	9.6857991 9.6860267	2276	10.3142009 10.3139733	9.7440499 9.7443476	2977	10.2559501 10.2556524	10.0582508   10.0583209	701	9.9417492 9.9416791	59 58
3	9.6862542	2275	10.3137458	9.7446453	2977	10.2553547	10.0583910	701 702	9.9416090	
4	9.6864816	2274 2272	10.3135184	9.7449428	2975 2975	10.2550572	10.0584612	703	9.9415388	56
5	9.6867088	2271	10.3132912	9.7452403	2973	10.2547597	10.0585315	703	9.9414685	55
6	9.6869359	2269	10.3130641	9.7155376	2973	10.2544624	10.0586018	703	9.9413982	
7	9.6871628	2267	10.3128372	9.7458349	2971	10.2541651	10.0586721	704	9.9413279	
8 9	9.6873895 9.6876161	2266	10.3126105	9.7461320 9.7464290	2970	10.2538680 10.2535710	10.0587425 10.0588129	704	9.9412575 9.9411871	52 51
10	9.6878425	2264	10.3121575	9.7467259	2969	10.2532741	10.0588834	705 705	9.9411166	50
11	9.6880688	2263 2261	10.3119312	9.7470227	2968 2967	10.2529773	10.0589539	706	9.9410461	49
12	9.6882949	2260	10.3117051	9.7473194	2966	10.2526806	10.0590245	707	9.9409755	48
13	9.6885209	2258	10.3114791	9.7476160	2965	10.2523840	10.0590952	706	9.9409048	
14	9.6887467	2256	10.3112533	9.7479125	2964	10.2520875	10.0591658	708	9.9408342	
15 16	9.6889723 9.6891978	2255	10.3110277 10.3108022	9.7482089 9.7485052	2963	10.2517911 10.2514948	10.0592366 10.0593073	707	9.9407634 9.9406927	45
17	9.6394232	2254 2252	10.3105768	9.7488013	2961	10.2511987	10.0593781	708 709	9.9406219	
18	9.6896484	2252	10.3103516	9.7490974	2961 2960	10.2509026	10.0594490	709	9.9405510	
19	9.6898734	2249	10.3101266	9.7493934	2950	10.2506066	10.0595199	710	9.9404801	41
20	9.6900983	2248	10.3099017	9.7496892	2958	10.2503108	10.0595909	710	9.9404091	40
21 22	9.6903231	2245	10.3096769	9.7499850	2956	10.2500150	10.0596619	711	9.9403381	39 38
23	9.6905476 9.6907721	2245	10.3094524 10.3092279	9.7502806 9.7505762	2956	10.2497194 10.2494238	10.0597330 10.0598041	711	9.9402670 9.9401959	
24	9.6909964	2243	10.3090036	9.7508716	2954	10.2491284	10.0598752	711	9.9401248	
25	9.6912205	2241	10.3087795	9.7511669	2953	10.2488331	10.0599465	713	9.9400535	35
26	9.6914445	2240 2238	10.3085555	9.7514622	2953 2951	10.2485378	10.0600177	712 713	9.9399823	
27	9.6916683	2236	10.3083317	9.7517573	2950	10.2482427	10.0600890	714	9.9399110	33
28	9.691 <b>8</b> 919 9.6921155	2236	10.3081081 10.3078845	9.7520523 9.7523472	2949	10.2479477	10.0601604 10.0602318	714	9.9398396 9.9397682	32 31
29 30	9.6923388	2233	10.3076612	9.7526420	2948	10.2476528 10.2473580	10.0603032	714	9.9396968	30
31	9.6925620	2232			2948		<del></del>	715	9.9396253	29
32	9.6927851	2231	10.3074380 10.3072149	9.7529368 9.7532314	2946	10.2470632 10.2467686	10.0603747 10.0604463	716	9.9395537	28
33	9.6930080	2229 2228	10.3069920	9.7535259	2945 2944	10.2464741	10.0605179	716 716	9.9394821	27
34	9.6932308	2226	10.3067692	9.7538203	2943	10.2461797	10.0605895	717	9.9394105	26
35 36	9.6934534 9.6936 <b>758</b>	2224	9.3065466 10.3063242	9.7541146 9.7544088	2942	10.2458854 10.2455912	10.0606612 10.0607329	717	9.9393388 9.9392671	25 24
		2223			2941			718		_
37 38	9.6938981 9.6941203	2222	10.3061019 10.3058797	9.7547029 9.7540969	2940	10.2452971	10.0608047	719	9.9391953 9.9391234	23 22
39	9.6943423	2220	10.3056577	9.7552908	2939	10.2450031 10.2447092	10.0608766 10.0609485	719	9.9390515	21
40	9.6945642	2219 2217	10.3054358	9.7555846	2938 2937	10.2444154	10.0610204	719 720	9.9389796	20
41 42	9.6917859	2215	10.3052141	9.7558783	2935	10.2441217	10.0610924	720	9.9389076	19
	9.6950074	2214	10.3049926	9.7561718	2935	10.2438282	10.0611644	721	9.9388356	18
43	9.6952288	2213	10.3047712	9.7564653	2934	10.2435347	10.0612365	721	9.9387635	17
44	9.6954501 9.6956712	2211	10.3045499 10.3043288	9.7567587 9.7570520	2933	10.2432413 10.2429480	10.0613086 10.0613808	722	9.9386914 9.9386192	16 15
46	9.6958922	2210 2208	10.3041078	9.7573452	2932	10.2429480	10.0613808	722 723	9.9385470	14
47	9.6961130	2206	10.3038870	9.7576383	2931 2930	10.2423617	10.0615253	723	9.9384747	13
43	9.6963336	2205	10.3036664	9.7579313	2929	10.2420687	10.0615976	724	9.9384024	12
49	9.6965541	2204	10.3034459	9.7582242	2928	10.2417758	10.0616700	724	9.9383300	11
50	9.6967745	2202	10.3032255	9.7585170	2926	10.2414830	10.0617424	725	9.9382576	10
51 52	9.6969947 9.6972148	2201	10.3030053 10.3027852	9.7588096 9.7591022	2926	10.2411904 10.2408978	10.0618149 10.0618874	725	9.9381851 9.9381126	9
53	9.6974347	2199 2198	10.3025653	9.7593947	2925 2924	10.2406053	10.0619600	726 726	9.9380400	7
51	9.6976545		10.3023455	9.7596871	- 1	10.2403129	10.0620326		9.9379674	6
55	9.6978741	2196	10.3021259	9.7599794	2923	10.2400206	10.0621053	727	9.9378947	5
56	9.6980936	2195 2193	10.3019064	9.7602716	2922 2921	10.2397284	10.0621780	727 728	9.9378220	4
57 58	9.6983129 9.6985321	2192	10.3016871	9.7605637	2920	10.2394363	10.0622508	728	9.9377492	3 2
59	9.6985521	2190	10.3014679 10.3012489	9.7608557 9.7611476	2919	10.2391443 10.2388524	10.0623236 10.0623965	729	9.9376764 9.9376035	ī
60	9.6989700	2189	10.3010300	9.7614394	2918	10.2385606	10.0624694	729	9.9375306	Ô
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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,	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent,	Secant.	Dir.	Co-sine.	1
0	9.6989700	2187	10.3010300	9.7614394	2917	10.2385606	10.0624694	729	9.9375306	60
2	9.6991887 9.6994073	2186	10.3008113 10.3005927	9.7617311 9.7620227	2916	10.2382689 10.2379773	10.0625423 10.0626153	730	9.9 <b>374577</b> 9.9 <b>37384</b> 7	59 58
3	9.6996258	2185	10.3003742	9.7623142	2915	10.2376858	10.0626884	731	9.9373116	57
4	9.6998441	2183 2181	10.3001559	9.7626056	2914 2913	10.2373944	10.0627615	731 732	9.9372385	56
5	9.7000622	2180	10.2999378	9.7628969	2912	10.2371031	10.0628347	732	9.9371653	55
_6	9.7002802	2179	10.2997198	9.7631881	2911	10.2368119	10.0629079	732	9.9370921	54
7	9.7004981	2177	10.2995019	9.7634792	2910	10.2365208	10.0629811	733	9.9370189	53
8	9.7007158 9.7009334	2176	10.2992842 10.2990666	9.7637702 9.7640612	2910	10.2362298 10.2359388	10.0630544 10.0631278	734	9.9369456 9.9368722	52 51
10	9.7011508	2174	10.2988492	9.7643520	2908	10.2356480	10.0632012	734	9.9367988	50
11	9.7013681	2173 2171	10.2986319	9.7646427	2907 2907	10.2353573	10.0632746	734 735	9.9367254	49
12	9.7015852	2170	10.2984148	9.7649334	2905	10.2350666	10.0633481	736	9.9366519	48
13	9.7018022	2168	10.2981978	9.7652239	2904	10.2347761	10.0634217	736	9.9365783	47
14	9.7020190 9.7022357	2167	10.2979810	9.7655143	2904	10.2344857 10.2341953	10.0634953	736	9.9365047 9.9364311	46 45
15 16	9.7024523	2166	10.2977643 10.2975477	9.7658047 9.7660949	2902	10.2341933	10.0636426	737	9.9363574	44
17	9.7026687	2164	10.2973313	9.7663851	2902	10.2336149	10.0637164	738 738	9.9362836	43
18	9.7028849	2162	10.2971151	9.7666751	2900 2900	10.2333249	10.0637902	738	9.9362098	42
19	9.7031011	2162 2159	10.2968989	9.7669651	2899	10.2330349	10.0638640	739	9.9361360	41
20	9.7033170	2159	10.2966830	9.7672550	2898	10.2327450	10.0639379	740	9.9360621	40
21 22	9.7035329 9.7037486	2157	10.2964671 10.2962514	9.767 <b>5448</b> 9.7678344	2896	10.2324552 10.2321656	10.0640119 10.0640859	740	9.9359881 9.9359141	39 38
23	9.7039641	2155	10.2960359	9.7681240	2896	10.2318760	10.0641599	740	9.9358401	37
24	9.7041795	2154	10.2958205	9.7684135	2895	10.2315865	10.0642340	741 742	9.9357660	36
25	9.7043947	2152	10.2956053	9.7687029	2894	10.2312971	10.0643082	741	9.9356918	35
26	9.7046099	2152 2149	10.2953901	9.7689922	2893 2892	10.2310078	10.0643823	743	9.9356177	34
27	9.7048248	2149	10.2951752	9.7692814	2891	10.2307136	10.0644566	743	9.9355434	33 32
28 29	9.7050397 9.7052543	2146	10.2949603 10.2947457	9.7695705 9.7698596	2891	10.2304295 10.2301404	10.0645309 10.0646052	743	9.9354691 9.9353948	31
30	9.7054689	2146	10.2945311	9.7701485	2889	10.2298515	10.0646796	744	9.9353204	31 30
31	9.7056833	2144	10.2943167	9.7704373	2888	10.2295627	10.0647541	745	9.9352459	29
32	9.7058975	2142	10.2941025	9.7707261	2888 2886	10.2292739	10.0648285	744	9.9351715	28
33	9.7061116	2141 2140	10.2938884	9.7710147	2886	10.2289853	10.0649031	746	9.9350969	27
34 35	9.7063256 9.7065394	2138	10.2936744 10.2934606	9.7713033 9.7715917	2884	10.2286967 10 2284083	10.0649777 10.0650523	746	9.9350223 9.9349477	26 25
36	9.7067531	2137	10.2932469	9.7718801	2884	10.2281199	10.0651270	747	9.9348730	24
57	9.7069667	2136	10.2930333	9.7721684	2883	10.2278316	10.0652017	747	9.9347983	23
38	9.7071801	2134	10.2928199	9.7724566	2882	10.2275434	10.0652765	748 749	9.9347235	22
39	9.7073933	2132 2131	10.2926067	9.7727447	2881 2880	10.2272553	10.0653514	748	9.9346486	21
40	9.7076064	2130	10.2923936	9.7730327	2879	10.2269673	10.0654262	750	9.9345738	20
41 42	9.7078194 9.7080323	2129	10.2921806 10.2919677	9.7733206 9.7736084	2878	10.2266794 10.2263916	10.0655012 10.0655762	750	9.9344988 9.9344238	19 18
43	9.7082450	2127		9.7738961	2877	10.2261039		750	9.9343488	17
44	9.7084575	2125	10.2917550 10.2915425	9.7738961	2877	10.2251039	10.0656512 10.0657263	751	9.9342737	16
45	9.7086699	2124 2123	10.2913301	9.7744713	2375 2875	10.2255287	10.0658014	751 752	9.9341986	15
46	9.7088822	2121	10.2911178	9.7747588	2874	10.2252412	10.0658766	752	9.9341234	14
47 48	9.7090943	2120	10.2909057 10.2906937	9.7750462 9.7753334	2872	10.2249538 10.2246666	10.0659518 10.0660271	753	9.9340482	13 12
I I		2119			2872			753		ı —
49 50	9.7095182 9.7097299	2117	10.2904818 10.2902701	9.7756206 9.7759077	2871	10.2243794 10.2240923	10.0661024 10.0661778	754	9.9338976 9.9338222	11 10
51	9.7099415	2116 2114	10.2900585	9.7761947	2870 2869	10.2238053	10.0662533	755 754	9.9337467	9
52	9.7101529	2113	10.2898471	9.7764816	2869	10.2235184	10.0663287	756	9.9336713	8
53 54	9.7103642 9.7105753	2111	10.2896358 10.2894247	9.7767685 9.7770552	2867	10.2232315 10.2229443	10.0664043 10.0664799	756	9.9335957 9.9335201	7
1		2110			2866			756		_
55 56	9.7107863 9.7109972	2109	10.2892137 10.2890028	9.7773418 9.7776284	2866	10.2226582 10.2223716	10.0665555 10.0666312	757	9.9334445 9.9333688	5
57	9.7112080	2108	10.2887920	9.7779149	2865	10.2220851	10.0667069	757	9.9332931	3
<i>5</i> 8	9.7114186	2106 2104	10.2885814	9.7782012	2863 2863	10.2217988	10.0667827	758 758	9.9332173	2
<i>5</i> 9	9.7116290 9.7118393	2103	10.2883710 10.2881607	9.7784875 9.7787737	2862	10.2215125 10.2212263	10.0668585 10.0669344	759	9.9531415 9.9330656	1 0
30	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	DIC	9.9330030 Sine.	-
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0 9.7118393 2102 10.2871607 9.778737 2868 10.2212863 10.0669344 760 9.9329666 60 12.221286 2969 10.2279565 9.779699 2860 10.2202861 10.0669344 760 9.932967 66 9.7196182 2967 10.287360 9.7796518 2969 10.2203861 10.0671623 760 9.932967 69 9.779618 2967 10.287360 9.7796518 2967 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2977 10.287360 2978 2978 2978 2978 2978 2978 2978 2978	31°									1	48°
1 9.7189495 2107 10.2877640 9.7783495 2865 10.220540 10.0670313 786 9.3932937 86 3.3 9.7184695 2067 10.2877640 9.778349 2865 10.220542 10.670632 76 76 9.333297 86 9.378369 2067 10.2877611 9.778349 2865 10.220542 10.670632 76 76 9.333266 76 76 9.7183897 2067 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286917 9.786499 10.286691 9.78649 10.286691 9.786499 10.286691 9.786699 10.286691 9.786699 10.286691 9.786699 10.286691 9.786699 10.286691 9.786699 10.286691 9.786699 10.286691 9.786699 10.			Dif.		Tangent.	Dif.		Secant.	Dif.		1
\$\frac{1}{2}\$ 9.77   \$2.506   \$2.00   \$10.297740   \$1.78.059   \$3.606   \$10.205341   \$10.067083   \$4.00   \$3.781616   \$2.007710   \$2.00771			2102			2862			759		
3 9.1124605 2677 10.2875605 9.7796.518 22097 10.2205622 10.0671284 60 9.3828576 57 65 9.3128898 2094 10.2875111 9.7802034 2857 10.2197966 10.0672346 62 9.3828654 56 9.3128992 2094 10.2869171 9.7804891 2857 10.2197966 10.0673968 79 9.3825654 56 9.3128760 2094 10.2869171 9.7804891 2857 10.219566 10.0673968 79 9.382565 46 9.732866 10.2896613 9.7804891 2855 10.2185681 10.0673968 79 9.3825654 56 9.328284 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.781560 2994 10.2856431 9.782561 2995 10.2856431 9.782562 2995 10.2856431 9.78256		9.7122596								9.9329897	
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14   9.7147693   2084   10.2849245   9.783062   2444   10.2166296   10.6860027   766   9.5319980   36   9.7151857   2080   10.2849245   9.783062   2444   10.2166296   10.6862321   768   9.7316015   2077   767   9.783062   2446   10.2166296   10.6862321   768   9.7316015   2077   767   9.783062   2446   10.2166296   10.6862321   768   9.7316015   2077   767   9.783062   2446   10.2166296   10.6862321   768   9.5316011   42   200   9.7166016   2076   10.2849245   9.7831940   2446   10.2165296   10.686385   768   9.5316011   42   2446	19		2085			2851			765		
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47 9.7215704 2038 10.2784296 9.7921280 2822 10.2078720 10.0705576 783 9.9294424 13 48 9.7217742 2037 10.2782288 9.7924101 2820 10.2075899 10.0706359 784 9.9293541 12 49 9.7219777 2037 10.278186 9.7929741 2820 10.2075899 10.0707927 784 9.9292957 11 50 9.7223848 2033 10.2776152 9.7932560 2818 10.2067440 10.0708711 784 9.92929373 10 51 9.7223848 2033 10.2776152 9.7932560 2818 10.2067440 10.0708711 785 9.9291289 9 52 9.7225881 2032 10.2774119 9.7935578 2817 10.2064622 10.0704926 786 9.9291289 9 53 9.7227913 2032 10.2772087 9.793101 2816 10.206898 10.0711082 786 9.9289364 12 55 9.7231972 2030 10.2776050 9.7941011 2816 10.2068989 10.0711083 786 9.9289332 6 55 9.7234000 2026 10.2766000 9.7946641 2814 10.2056173 10.0711855 787 9.9288135 2022 10.2769949 9.7952268 2814 10.2056452 10.0714217 789 9.9288783 2 56 9.7234007 2022 10.2769949 9.7952268 2814 10.2047732 10.0714217 789 9.9288783 2 59 9.7240075 2022 10.2759925 9.7955081 2811 10.2047932 10.0715066 789 9.9284904 1 60 9.7242097 2022 10.2759935 9.7957892 2811 10.2044919 10.0715066 789 9.9284904 1 7 Co-sine. Dif. Secant. Co-tang. Dif. Tangent. Co-secant. Dif. Sine. 7						2823	10.2084365			9.9290969	
48   9.7217742   2037   10.27682258   9.7924101   2820   10.2076899   10.0706359   784   9.9293641   12   12   12   12   12   12   12	47	9.7215704		10.2784296	9.7921280		10.2078720	10.0705576		9.9294424	13
49         9.7219779         2035         10.2780221         9.7926921         2820         10.2073079         10.00707927         784         9.9292577         11           50         9.7221814         2034         10.2776152         9.7929741         2819         10.2070259         10.0707927         784         9.9292073         10           51         9.7225881         2033         10.2776152         9.7932560         2818         10.2064622         10.0708711         785         9.9291289         9           52         9.7227913         2032         10.277007         9.793101         2816         10.2064622         10.07010282         786         9.9289718         7           54         9.7234002         2029         10.2766028         9.7943627         2816         10.2056173         10.0711068         787         9.92887358         4           57         9.7236026         2026         10.2766000         9.7946641         2814         10.2053399         10.07112642         787         9.92887358         4           59         9.72340075         2022         10.2769949         9.7952681         2814         10.2053995         10.07114217         789         9.9288783         2	1			10.2782258	9.7924101	1	10.2075899	10.0706359			
50 9.7221814 2034 10.2778186 9.7929741 2819 10.2070259 10.070927 784 9.9292073 10 51 9.7223848 2032 10.2776152 9.7932560 2818 10.2064622 10.0709496 786 9.9290504 8 52 9.722581 2032 10.2771087 9.7938195 2816 10.2064622 10.0709496 786 9.9290504 8 53 9.7227913 2030 10.2772087 9.7938195 2816 10.2064622 10.0700496 786 9.92893718 7 55 9.7231972 2029 10.2768028 9.7943827 2816 10.2068989 10.0711068 787 9.9288932 6 56 9.7234000 2026 10.2766000 9.7946641 2814 10.2053359 10.07112642 787 9.9288145 5 57 9.7236926 2028 10.2766000 9.7949455 2814 10.2053359 10.07112642 787 9.9287358 4 57 9.72360726 2024 10.2766094 9.7949455 2814 10.2053359 10.07112642 787 9.9287358 4 58 9.7238051 2024 10.2761949 9.7952268 2813 10.2050545 10.07134217 789 9.9288783 2 59 9.7240075 2024 10.2761949 9.7952268 2813 10.2044919 10.0715066 789 9.9284205 0 50 9.7242097 2022 10.2757903 9.7957892 2811 10.2042108 10.0715795 789 9.9284205 0 50 9.7242097 10.5 8ecant.											11
52 9.7325681 9.033 10.277419 9.7955578 2816 10.2064632 10.0710496 786 9.9290504 8 53 9.7227913 2030 10.2772087 9.7958195 2816 10.2064632 10.0710496 786 9.9290504 8 54 9.7229943 2029 10.2768028 9.7944011 2816 10.2065073 10.0711068 787 9.7236076 2026 10.2765974 9.7949455 2816 10.20550545 10.07113429 788 9.9288738 4 55 9.7234000 2026 10.2765974 9.7949455 2813 10.2050545 10.07113429 788 9.9288738 4 56 9.72340075 2024 10.2765974 9.7952268 2813 10.2047732 10.07113429 788 9.9285735 29.7240075 2024 10.27559925 9.7955081 2811 10.2042108 10.0715795 789 9.9284205 0 57 9.7242097 2022 10.2759925 9.7957892 2811 10.2042108 10.0715795 789 9.9284205 0 58 9.7234066 2025 10.2765974 9.7952268 2813 10.2044919 10.0715006 789 9.9284205 0 59 9.7242097 2022 10.2757903 9.7957892 2811 10.2042108 10.0715795 789 9.9284205 0			2034			2819				9.9292073	10
53 9.7227913 2032 10.277287 9.7938195 2816 10.2061805 10.07110282 786 9.9289718 7 54 9.7229943 2029 10.2768028 9.7941011 2816 10.2068989 10.0711068 787 9.7236026 2026 10.2766000 9.7949455 2814 10.2053359 10.0711282 786 9.9288135 59 9.7234000 2026 10.2766000 9.7949455 2813 10.2050545 10.0711282 787 9.9288135 59 9.7240075 2024 10.2761949 9.7952268 2813 10.2050545 10.0711282 788 9.9288738 2916 10.2050545 10						2818			785		
54         9.7229943         9.7229943         9.7239973         9.7231972         9.7231972         9.7231972         9.7234000         9.7234000         9.7236026         9.7234000         9.7236072         9.723	53	9.7227913		10.2772087	9.7938195		10.2061805	10.0710282		9.9289718	7
55 9.7231972 2028 10.2768028 9.7943827 2814 10.2056173 10.0711855 787 9.9288145 5 57 9.7234000 2026 10.2766000 9.7949455 2813 10.2050545 10.0713429 788 9.9287358 4 58 9.7238051 2024 10.2761949 9.7952268 2813 10.2047732 10.0714217 788 9.9285671 3 59 9.7240075 2022 10.2759925 9.7955081 2811 10.2044919 10.0715006 789 9.9284205 0 60 9.7242097 2022 10.2757903 9.7957892 2811 10.2042108 10.0715795 789 9.9284205 0 7 Co-sine. Dif. Secant. Co-tang. Dif. Tangent. Co-escant. Dif. Sine. 7				10.2770057	9.7941011		10.2058989	10.0711068	ľ		6
56 9.7234000 2026 10.2766000 9.7946641 2814 10.2053359 10.0719542 787 9.9287358 4 9.7236026 2025 10.2763974 9.7949455 2813 10.205355 10.0713429 788 9.9286571 3 10.2047732 10.0714217 789 9.9286573 2 9.7242097 2022 10.2759925 9.7956081 2811 10.2047732 10.0715006 789 9.9284205 0 9.7242097 2022 10.2757903 9.7957892 2811 10.2042108 10.0715795 789 9.9284205 0 7.7042109 10.0715795 789 9.9284205 0 10.204791 10.				10.2768028				10.0711855		9.9288145	
58 9.7238051   2024   10.2761949   9.7949405   2024   10.2761949   9.7952268   2024   2027   2024   2027   2024   2027   2024   2027   2024   2027   2024   2027	56	9.7234000		10.2766000							4
59 9.7242097 2022 10.2759925 9.7957892 2811 10.2042108 10.0715795 789 9.9284204 1   Co-sine. Dif. Secant. Co-tang. Dif. Tangent. Co-secant. Dif. Sine. /			2025			2813			788		3
60         9.7242097         2022         10.2757903         9.7957892         2811         10.2042108         10.0715795         789         9.9284205         0           /         Co-sine.         Dif.         Secant.         Co-tang.         Dif.         Tangent.         Co-secant.         Dif.         Sine.         /	59	9.7240075									
Table	60		2022	10.2757903		2011			189		
191° 58°	7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
	121	lo.									<b>58°</b>

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820	)								1	470
-	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	DIC.	Co-sine.	1,
0	9.7242097		10.2757903	9.7957892	~~~	10.2042108	10.0715795	-	9.9284205	60
i	9.7244118	2021 2020	10.2755882	9.7960703	2811 2810	10.2039297	10.0716585	790 790	9.9283415	59
2	9.7246138	2018	10.2753862	9.7963513	2809	10.2036487	10.0717375	791	9.9282625	58
3	9.7248156	2018	10.2751844	9.7966322	2808	10.2033678	10.0718166	791	9.9281834	57
5	9.7250174 9.7252189	2015	10.2749826	9.7969130 9.7971938	2808	10.2030870 10.2028062	10.0718957 10.0719749	792	9.9281043	56 55
6	9.7254204	2015	10.2747811 10.2745796	9.7974745	2807	10.2025052	10.0720541	792	9.9280251 9.9279459	54
1 —		2013			2806			793		
7 8	9.7256217 9.7258 <b>22</b> 9	2012	10.2743783	9.7977551 9.7980356	2805	10.2022449 10.2019644	10.0721334 10.0722127	793	9.9278666	53 52
ا ۋ	9.7260240	2011	10.2741771 10.2789760	9.7983160	2804	10.2016840	10.0722921	794	9.9277873 9.9277079	51
10	9.7262249	2009	10.2737751	9.7985964	2804	10.2014036	10.0723715	794	9.9276285	50
11	9.7264257	2008 2007	10.2735743	9.7988767	2803 2802	10.2011233	10.0724510	795 795	9.9275490	49
12	9.7266264	2005	10.2733736	9.7991569	2801	10.2008431	10.0725305	796	9.9274695	48
13	9.7268269		10.2731731	9.7994370		10.2005630	10.0726101		9.9273899	47
14	9.7270273	2004 2003	10.2729727	9.7997170	2800 2800	10.2002830	10.0726897	796 797	9.9273103	46
15	9.7272276	2002	10.2727724	9.7999970	2799	10.2000030	10.0727694	797	9.9272306	45
16 17	9. <b>72</b> 74 <b>27</b> 8 9. <b>72</b> 76 <b>2</b> 78	2000	10.2725722	9.8002769	2798	10.1997231	10.0728491	798	9.9271509	44
18	9.7278277	1999	10.2723722 10.2721723	9.8005567 9.8008365	2798	10.1994433 10.1991635	10.0729289 10.0730087	798	9.9270711 9.9269913	43 42
I — I		1998			2796			799		
19 20	9. <b>72</b> 80 <b>2</b> 7 <i>5</i> 9. <b>72</b> 82 <b>2</b> 71	1996	10.2719725	9.8011161	2796	10.1988839	10.0730886	800	9.9269114	41
21	9.7284267	1996	10.27177 <u>2</u> 9 10.2715733	9.8013957 9.8016752	2795	10.1986043 10.1983248	10.0731686 10.0732486	800	9.9268314 9.9267514	40 39
22	9.7286260	1993	10.2713740	9.8019546	2794	10.1980454	10.0733286	800	9.9266714	38
23	9.7288253	1993 1991	10.2711747	9.8022340	2794	10.1977660	10.0734087	801 801	9.9265913	37
24	9.7290244	1990	10.2709756	9.8025133	2793	10.1974867	10.0734888	802	9.9265112	36
25	9.7292234	1989	10.2707766	9.8027925	2792	10.1972075	10.0735690		9.9264310	35
26	9.7294223	1989	10.2705777	9.8030716	2791	10.1969284	10.0736493	803 803	9.9263507	34
27	9.7296211	1986	10.2703789	9.8033506	2790 2790	10.1966494	10.0737296	803	9.9262704	33
28 29	9.7298197	1985	10.2701803	9.8036296	2789	10.1963704	10.0738099	805	9.9261901	32
30	9.7300182 9.7302165	1983	10.2699818 10.2697835	9.8039085 9.8041873	2788	10.1960915 10.1958127	10.0738904 10.0739708	804	9.9261096 9.9260292	31
1 1		1983			2788			805		30
31	9.7304148 9.7306129	1981	10.2695852	9.8044661	2786	10.1955339	10.0740513	806	9.9259487	29
32 33	9.7308109	1980	10.2693871 10.2691891	9.8047447 9.8050238	2786	10.1952553 10.1949767	10.0741319 10.0742125	806	9.9258681 9.9257875	28 27
34	9.7310087	1978	10.2689913	9.8053019	2786	10.1946981	10.0742931	806	9.9257069	26
35	9.7312064	1977 1976	10.2687936	9.8055803	2784 2784	10.1944197	10.0743739	808 807	9.9256261	25
36	9.7314040	1975	10.2685960	9.8058587	2783	10.1941413	10.0744546	808	9.9255454	24
37	9.7316015		10.2683985	9.8061370	_	10.1938630	10.0745354		9.9254646	23
38	9.7317989	1974 1972	10.2682011	9.8064152	2782 2781	10.1935848	10.0746163	809 809	9.9253837	22
39	9.7819961	1971	10.2680039	9.8066933	2781	10.1933067	10.0746972	810	9.9253028	21
40 41	9.7321932 9.7323902	1970	10.2678068 10.2676098	9.8069714	2780	10.1930286	10.0747782 10.0748592	810	9.9252218	20
42	9.7325870	1968	10.2674130	9.8072494 9.8075273	2779	10.1927506 10.1924727	10.0749403	811	9.9251408 9.9250597	19 18
		1967			2779			811		
43	9.7327837 9.7329803	1966	10.2672163 10.2670197	9.8078052 9.8080829	2777	10.1921948 10.1919171	10.0750214	812	9.9249785	17
45	9.7331768	1965	10.2668232	9.8083606	2777	10.1919171	10.0751026 10.0751839	813	9.9248974 9.9248161	16 15
46	9.7333731	1963 1962	10.2666269	9.8086383	2777 2775	10.1913617	10.0752651	812 814	9.9247349	14
47	9.7335693	1961	10.2664307	9.8089158	2115	10.1910842	10.0753465	814	9.9246535	13
48	9.7337654	1960	10.2662346	9.8091933	2774	10.1908067	10.0754279	814	9.9245721	12
49	9.7339614	1958	10.2660386	9.8094707	2773	10.1905293	10.0755093	815	9.9244907	11
50	9.7341572	1957	10.2658428	9.8097480	2773	10.1902520	10.0755908	815	9.9244092	10
51	9.7343529 9.7345485	1956	10.2656471	9.8100253	2772	10.1899747	10.0756723	816	9.9243277	9
52 53	9.7347440	1955	10.2654515 10.2652560	9.8103025 9.8105796	2771	10.1896975 10.1894204	10.0757539 10.0758356	817	9.9 <b>242461</b> 9.9 <b>24</b> 1644	8
54	9.7349393	1953	10.2650607	9.8108566	2770	10.1891434	10.0759173	817	9.9240827	6
55	9.7351345	1952	10.2648655		2770	10.1888664		817		
56	9.7353296	1951	10.2646704	9.8111336 9.8114105	2769	10.1885895	10.0759990 10.0760809	819	9.9240010 9.9239191	5 4
57	9.7355246	1950	10.2644754	9.8116873	2768	10.1883127	10.0761627	818	9.9238373	3
58	9.7357195	1949 1947	10.2642805	9.8119641	2768 2767	10.1880359	10.0762446	819 820	9.9237554	2
59	9.7359142	1946	10.2640858	9.8122408	2766	10.1877592	10.0763266	820	9.9236734	1
60	9.7361088		10.2638912	9.8125174		10.1874826	10.0764086		9.9235914	0
'	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Đứ.	Sine.	7
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0 1 2 3 4 5	9.7361088 9.7363032 9.7364976 9.7366918	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	
1 2 3 4	9.7363032 9.7364976	1044				CO-taligonic.				1
3 4	9.7364976		10.2638912	9.8125174	2765	10.1874826	10.0764086	821	9.9235914	60
3 4		1944	10.2636968	9.8127939	2765	10.1872061	10.0764907	821	9.9235093	59
4	9. / 3009171	1942	10.2635024	9.8130704	2764	10.1869296	10.0765728	822	9.9234272	58 57
	0.7900050	1941	10.2633082 10.2631141	9.8133468 9.8136231	2763	10.1866532	10.0766550	822	9.9233450 9.9232628	56
	9.7368859 9.7370799	1940	10.2629201	9.8138993	2762	10.1863769 10.1861007	10.0767372 10.0768195	823	9.9231805	5
6	9.7372737	1938	10.2627263	9.8141755	2762	10.1858245	10.0769018	823	9.9230982	5
		1938			2761			824		-
7	9.7374675	1936	10.2625325	9.8144516	2761	10.1855484	10.0769842	824	9.9230158	5
8	9.7376611	1935	10.2623389 10.2621454	9.8147277 9.81500 <b>3</b> 6	2759	10.1852723 10.1849964	10.0770666	825	9.9229334 9.9228509	5
10	9.7378546 9.7380479	1933	10.2619521	9.8152795	2759	10.1847205	10.0771491 10.0772316	825	9.9227684	5
ii	9.7382412	1933	10.2617588	9.8155554	2759	10.1844446	10.0773142	826	9.9226858	4
îż	9.7384343	1931	10.2615657	9.8158311	2757	10.1841689	10.0773968	826	9.9226032	14
		1930			2757			827	0.0005005	1-
13	9.7386273	1928	10.2613727	9.8161068	2756	10.1838932	10.0774795	328	9.9225205	4
14 15	9.7388201 9.7390129	1928	10.2611799 10.2609871	9.8163824 9.8166580	2756	10.1836176 10.1833420	10.0775623 10.0776451	828	9.9223549	4
16	9.7392055	1926	10.2607945	9.8169335	2755	10.1830665	10.0777279	828	9.9222721	4
17	9.7393980	1925	10.2606020	9.8172089	2754	10.1827911	10.0778109	830	9.9221891	4
i8	9.7395904	1924	10.2604096	9.8174842	2753	10.1825158	10.0778938	829	9.9221062	4
19		1923			2753	10.1822405		830	9.9220232	4
20	9.7397827 9.7399748	1921	10.2602173 10.2600252	9.8177595 9.8180347	2752	10.1822405	10.0779768 10.0780599	831	9.9219401	4
21	9.7401668	1920	10.2598332	9.8183098	2751	10.1816902	10.0781430	831	9.9218570	3
22	9.7403587	1919	10.2596413	9.8185849	2751	10.1814151	10.0782262	832	9.9217738	Š
23	9.7405505	1918 1916	10.2594495	9.8188599	2750	10.1811401	10.0783094	832 833	9.9216906	8
24	9.7407421	1916	10.2592579	9.8191348	2749	10.1808652	10.0783927	833	9.9216073	3
25	9.7409337		10.2590663	9.8194096	2748	10.1805904	10.0784760		9.9215240	3
26	9.7411251	1914	10.2588749	9.8196844	2748	10.1803156	10.0785594	834	9.9214406	3
27	9.7413164	1913 1911	10.2586836	9.8199592	2748	10.1800408	10.0786428	834 835	9.9213572	3
28	9.7415075	1911	10.2584925	9.8202338	2746	10.1797662	10.0787263	835	9.9212737	3
29	9.7416986	1909	10.2583014	9.8205084	2746 2745	10.1794916	10.0788098	836	9.9211902	3
30	9.7418895	1908	10.2581105	9.8207829	1	10.1792171	10.0788934	837	9.9211066	3
31	9.7420803		10.2579197	9.8210574	2745	10.1789426	10.0789771		9.9210229	2
32	9.7422710	1907 1906	10.2577290	9.8213317	2743	10.1786683	10.0790607	836 838	9.9209393	2
33	9.7424616	1904	10.2575384	9.8216060	2743 2743	10.1783940	10.0791445	838	9.9208555	2
34	9.7426520	1903	10.2573480	9.8218803	2749	10.1781197	10.0792283	839	9.9207717	2
35	9.7428423	1902	10.2571577	9.8221545	2742 2741	10.1778455	10.0793122	839	9.9206878	2
36	9.7430325	1901	10.2569675	9.8224286	2740	10.1775714	10.0793961	839	9.9206039	2
37	9.7432226	1900	10.2567774	9.8227026		10.1772974	10.0794800	840	9.9205200	2
<b>3</b> 8	9.7434126	1898	10.2565874	9.8229766	2740	10.1770234	10.0795640	841	9.9204360	2
39 I	9.7436024	1897	10.2563976	9.8232505	2739 2739	10.1767495	10.0796481	841	9.9203519	2
40	9.7437921	1896	10.2562079	9.8235244	2737	10.1764756	10.0797322	842	9.9202678	2
41	9.7439817	1895	10.2560183	9.8237981	2738	10.1762019	10.0798164	842	9.9201836	1
42	9.7441712	1894	10.2558288	9.8240719	2736	10.1759281	10.0799006	843	9.9200994	11
43	9.7443606	1892	10.2556394	9.8243455	2736	10.1756545	10.0799849	843	9.9200151	1
44	9.7445498	1892	10.2554502	9.8246191	2735	10.1753809	10.0800692	844	9.9199308	1
45	9.7447390	1890	10.2552610	9.8248926	2734	10.1751074	10.0801536	845	9.9198464	1
46	9.7449280	1889	10.2550720	9.8251660	2734	10.1748340	10.0802381	844	9.9197619 9.9196775	1
47 48	9.7451169	1887	10.2548831	9.8254394 9.8257127	2733	10.1745606 10.1742873	10.080 <b>322</b> 5 10.0804071	846	9.9196778	i
	9.7453056	1887	10.2546944		2733			846		-
49	9.7454943	1885	10.2545057	9.8259860	2732	10.1740140	10.0804917	846	9.9195083	1
50	9.7456828	1884	10.2543172	9.8262592	2731	10.1737408	10.0805763	847	9.919 <b>423</b> 7 9.919 <b>33</b> 90	1
51 52	9.7458712	1883	10.2541288	9.8265323	2730	10.1734677 10.1731947	10.0906610 10.0907458	848	9.9193390	
53	9.7460595 9.7462477	1882	10.2539405 10.2537523	9.8268053 9.8270783	2730	10.1729217	10.0808306	848	9.9191694	
54	9.7464358	1881	10.2535642	9.8273513	2730	10.1726487	10.0809155	849	9.9190845	١
		1879			2728			849	9.9189996	-
55	9.7466237	1878	10.2533763	9.8276241	2728	10.1723759 10.1721031	10.0810004 10.0810854	850	9.9189396	
56 57	9.7468115 9.7469992	1877	10.2531885 10.2530008	9.8278969 9.8281696	2727	10.1721031	10.0811704	850	9,9188296	
58	9.7471868	1876	10.2528132	9.8284423	2727	10.1715577	10.0812555	851	9.9187445	1
59	9.7473743	1875	10.2526257	9.8287149	2726	10.1712851	10.0813406	851	9.9186594	l
60	9.7475617	1874	10.2524383	9.8289874	2725	10.1710126	10.0814258	852	9.9185742	
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif	Tangent.	Co-secant.	Dif.	Sine.	٦,
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1	Sine.	D¥.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	DK.	Co-sine.	7
0	9.7475617	1872	10.2524383	9.8289874	2725	10.1710126	10.0814258	852	9.9185742	60
1	9.7477489	1871	10.2522511	9.8292599	2724	10.1707401	10.0815110	853	9.9184890	59
2	9.7479360	1870	10.2520640	9.8295323	2724	10.1704677	10.0815963	854	9.9184037	58
3	9.7481230 9.7483099	1869	10.2518770 10.2516901	9.8298047 9.8300769	2722	10.1701953 10.1699231	10.0816817 10.0817671	854	9.9183183 9.9182 <b>32</b> 9	57 56
5	9.7484967	1868	10.2515033	9.8303492	2723	10.1696508	10.0318525	854	9.9181475	55
6	9.7486833	1866	10.2513167	9.8306213	2721	10.1693787	10.0819380	855 856	9.9180620	54
7	9.7488698	1865	10.2511302	9.8308934	2721	10.1691066	10.0820236		9.9179764	53
8	9.7490562	1864 1863	10.2509438	9.8311654	2720 2720	10.1688346	10.0821092	856 857	9.9178908	52
9	9.7492425	1862	10.2507575	9.8314374	2719	10.1685626	10.0821949	857	9.9178051	51
10 11	9.7494287 9.7496148	1861	10.2505713 10.2503852	9.8317093 9.8319811	2718	10.1682907	10.0822806 10.0823664	858	9.9177194 9.9176336	50 49
12	9.7498007	1859	10.2503652	9.8322529	2718	10.1677471	10.0824522	858	9.9175478	48
		1859			2717			859		
13 14	9.7499866	1857	10.2500134 10.2498277	9.8325246 9.8327963	2717	10.1674754 10.1672037	10.0825381 10.0826240	859	9.9174619 9.9173760	47
15	9.7501723 9.7503579	1856	10.2496421	9.8330679	2716	10.1669321	10.0827100	860	9.9172900	46 45
16	9.7505434	1855	10.2494566	9.8333394	2715	10.1666606	10.0827960	860	9.9172040	44
17	9.7507287	1853 1853	10.2492713	9.8336109	2715 2714	10.1663891	10.0828821	861 862	9.9171179	43
18	9.7509140		10.2490860	9.8338823		10.1661177	10.0829683		9.9170317	42
19	9.7510991	1851	10.2489009	9.8341536	2713	10.1658464	10.0830545	862	9.9169455	41
20	9.7512842	1851 1849	10.2487158	9.8344249	2713	10.1655751	10.0831407	862	9.9168593	40
21	9.7514691	1847	10.2485309	9.8346961	2712 2712	10.1653039	10.0832270	863 864	9.9167730	39
22	9.7516538	1847	10.2483462	9.8349673	2711	10.1650327	10.0833134	864	9.9166866	38
23	9.7518385 9.7520231	1846	10.2481615	9.8352384	2710	10.1647616 10.1644906	10.0833998	865	9.9166002 9.9165137	37
		1844	10.2479769	9.8355094	2710	10.1044900	10.0834863	865	9.9103137	36
25	9.7522075	1844	10.2477925	9.8357804	2709	10.1642196	10.0835728	866	9.9164272	35
26	9.7523919	1842	10.2476081	9.8360513	2708	10.1639487	10.0836594	867	9.9163406	34
27 28	9.7525761 9.7527602	1841	10.2474239 10.2472398	9.8363221 9.8365929	2708	10.1636779 10.1634071	10.0837461 10.0838327	866	9.9162539 9.9161673	33 32
29	9.7529442	1840	10.2470558	9.8368636	2707	10.1631364	10.0839195	868	9.9160805	32 31
30	.9.7531280	1838	10.2468720	9.8371343	2707	10.1628657	10.0840063	868	9.9159937	30
31	9.7533118	1838	10.2466882	9.8374049	2706	10.1625951	10.0840931	868	9.9159069	29
32	9.7534954	1836	10.2465046	9.8376755	2706	10.1623931	10.0841800	869	9.9158200	28
33	9.7536790	1836 1834	10.2463210	9.8379460	2705	10.1620540	10.0842670	870	9.9157330	27
34	9.7538624	1833	10.2461376	9.8382164	2704 2703	10.1617836	10.0843540	870 871	9.9156460	26
35	9.7540457	1831	10.2459543	9.8384867	2704	10.1615133	10.0844411	871	9.9155589	25
36	9.7542288	1831	10.2457712	9.8387571	2702	10.1612429	10.0845282	872	9.9154718	24
37	9.7544119	1830	10.2455831	9.8390273	2702	10.1609727	10.0846154		9.9153846	23
38	9.7545949	1828	10.2454051	9.8392975	2701	10.1607025	10.0847026	872 873	9.9152974	22
39 40	9.7547777	1827	10.2452223	9.8395676	2701	10.1604324	10.0847899	873	9.9152101	21
41	9.7549604 9.7551431	1827	10.2450396 10.2448569	9.8398377 9.8401077	2700	10.1601623 10.1598923	10.0848772 10.0849646	874	9.9151228 9.9150354	20
42	9.7553256	1825	10.2446744	9.8403776	2699	10.1596224	10.0850521	875	9.9149479	19 18
43	9.7555080	1824			2699			875		-
44	9.7556902	1822	10.2444920 10.2443098	9.8406475 9.8409174	2699	10.1593525 10.1590826	10.0851396	875	9.9148604	17
45	9.7558724	1822	10.2441276	9.8411871	2697	10.1590826	10.0852271 10.0853148	877	9.9147729 9.9146852	16 15
46	9.7560544	1820 1820	10.2439456	9.8414569	2698 2696	10.1585431	10.0854024	876	9.9145976	14
47	9.7562364	1818	10.2437636	9.8417265	2696	10.1582735	10.0854901	877 878	9.9145099	13
48	9.7564182	1817	10.2435818	9.8419961	2696	10.1580039	10.0855779	879	9.9144221	12
49	9.7565999	1816	10.2434001	9.8422657	2694	10.1577343	10.0856658	878	9.9143342	11
50	9.7567815	1815	10.2432185	9.8425351	2695	10.1574649	10.0857536	880	9.9142464	10
51	9.7569630	1814	10.2430370	9.8428046	2693	10.1571954	10.0858416	880	9.9141584	9
52 53	9.7571444 9.7573256	1812	10.2428556 10.2426744	9.8430739 9.8433432	2693	10.1569261 10.1566568	10.0859296	880	9.9140704	8
54	9.7575068	1812	10.2426744	9.8436125	2693	10.1563875	10.0860176 10.0861067	881	9.9139824 9.9138943	7
55		1810			2692			882		_
60	9.7576878 9.7578687	1809	10.2423122 10.2421313	9.8438817	2691	10.1561183	10.0861939	882	9.9138061	5 4
56 57	9.7580495	1808	10.2421313	9.8441 <i>5</i> 08 9.8444199	2691	10.1558492 10.1555801	10.0862821 10.0863704	883	9.9137179 9.9136296	3
58 59	9.7582302	1807 1806	10.2417698	9.8446889	2690 2690	10.1553111	10.0864587	883	9.9135413	2
59	9.7584108	1805	10.2415892	9.8449579	2689	10.1550421	10.0865470	883 885	9.9134530	1
60	9.7585913		10.2414087	9.8452268		10.1547732	10.0866355	000	.9.9133645	0
'	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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-	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1/
		——				10.1547732	10.0866355		9.9133645	60
0	9.7585913 9.7587717	1804	10.2414087 10.2412283	9.8452268 9.8454956	2688	10.1545044	10.0867240	885	9.9132760	59
2	9.7589519	1802 1802	10.2410481	9.8457644	2688 2688	10.1542356	10.0868125	885 886	9.9131875	58
3	9.7591321	1800	10.2408679	9.8460332	2686	10.1539668	10.0869011	887	9.9130989	57
4 5	9.7593121 9.7594920	1799	10.2406879 10.2405080	9.8463018 9.8465705	2687	10.1536982 10.1534295	10.0869898 10.0870785	887	9.9130102 9.9129215	56 55
6	9.7596718	1798	10.2403282	9.8468390	2685	10.1531610	10.0871672	887	9.9128328	54
7	9.7598515	1797	10.2401485	9.8471075	2685	10.1528925	10.0872560	888	9.9127440	53
8	9.7600311	1796	10.2399689	9.8473760	2685	10.1526240	10.0873449	889	9.9126551	52
9	9.7602106	1795	10.2397894	9.8476444	2684 2683	10.1523556	10.0374338	889 890	9.9125662	51
10	9.7603899	1793 1793	10.2396101	9.8479127	2683	10.1520873	10.0875228	890	9.9124772	50
11 12	9.7605692 9.7607483	1791	10.2394308 10.2392517	9.8481810 9.8484492	2682	10.1518190 10.1515508	10.0876118 10.0877009	891	9.9123882	49 48
		1791			2682			892		-
13 14	9.7609274 9.7611063	1789	10.2390726 10.2388937	9.8487174 9.8489855	2681	10.1512826 10,1510145	10.0877901 10.0878793	892	9.9122099 9.9121207	47 46
15	9.7612851	1788	10.2387149	9.8492536	2681	10.1507464	10.0879685	892	9.9120315	45
16	9.7614638	1787	10.2385362	9.8495216	2680 2680	10.1504784	10.0880578	893 894	9.9119422	44
17	9.7616424	1786 1784	10.2383576	9.8497896	2679	10.1502104	10.0881472	894	9.9118528	43
18	9.7618208	1784	10.2381792	9.8500575	2678	10.1499425	10.0882366	895	9.9117634	42
19	9.7619992	1783	10.2380008	9.8503253	2678	10.1496747	10.0893261	895	9.9116739	41
20 21	9.7621775 9.7623556	1781	10.2378225	9.8505931 9.8508608	2677	10.1494069 10.1491392	10.0884156	896	9.9115844 9.9114948	40 39
21	9.7625337	1781	10.2376444 10.2374663	9.8511285	2677	10.1491392	10.0885052 10.0885949	897	9.9114051	38
23	9.7627116	1779	10.2372884	9.8513961	2676 2676	10.1486039	10.0886845	896 898	9.9113155	37
24	9.7628894	1778	10.2371106	9.8516637	2675	10.1483363	10.0887743	898	9.9112257	36
25	9.7630671	1777	10.2369329	9.8519312	2675	10.1480688	10.0888641	899	9.9111359	35
26	9.7632447	1776 1775	10.2367553	9.8521987	2674	10.1478013	10.0889540	899	9.9110460	34
27 28	9.7634222	1774	10.2365778	9.8524661	2674	10.1475339	10.0890439	900	9.9109561	33
20	9.7635996 9.7637769	1773	10.2364004	9.8527335 9.8530008	2673	10.1472665 10.1469992	10.0891339 10.0892239	900	9.9108661	32 31
30	9.7639540	1771	10.2360460	9.8532680	2672	10.1467320	10.0893140	901	9.9106860	30
31	9.7641311	1771	10.2358689	9.8535352	2672	10.1464648	10.0894041	901	9.9105959	29
32	9.7643080	1769 1769	10.2356920	9.8538023	2671 2671	10.1461977	10.0894943	902	9.9105057	28
33	9.7644849	1767	10.2355151	9.8540694	2671	10.1459306	10.0895845	904	9.9104155	27
34 35	9.7646616 9.7648382	1766	10.2353384	9.8543365	2669	10.1456635 10.1453966	10.0896749	903	9.9103251 9.9102348	26 25
36	9.7650147	1765	10.2351618 10.2349853	9.8546034 9.8548704	2670	10.1451296	10.0897652 10.0898556	904	9.9101444	24
37	9.7651911	1764			2668			905	9.9100539	I —
38	9.7653674	1763	10.2348089 10.2346326	9.8551372 9.8554041	2669	10.1448628 10.1445959	10.0899461 10.0900366	905	9.9099634	23 22
39	9.7655436	1762	10.2344564	9.8556708	2667 2668	10.1443292	10.0901272	906	9.9098728	21
10	9.7657197	1761 1760	10.2342803	9.8559376	2666	10.1440624	10.0902179	906	9.9097821	20
41	9.7658957 9.7660715	1758	10.2341043 10.2339285	9.8562042	2666	10.1437958 10.1435292	10.0903085 10.0903993	908	9.9096915	19
		1758		9.8564708	2666			908		18
43	9.7662473 9.7664229	1756	10.2337527	9.8567374	2665	10.1432626	10.0904901	909	9.9095099	17
45	9.7665985	1756	10.2335771 10.2334015	9.8570039 9.8572704	2665	10.1429961 10.1427296	10.0905810 10.0906719	909	9.9094190 9.9093281	16 15
46	9.7667739	1754 1753	10.2332261	9.8575368	2664 2663	10.1424632	10.0907629	910 910	9.9092371	14
47	9.7669492	1752	10,2330508	9.8578031	2663	10.1421969	10.0908539	911	9.9091461	13
48	9.7671244	1752	10.2328756	9.8580694	2663	10.1419306	10.0909450	911	9.9090550	12
49	9.7672996	1750	10.2327004	9.8583357	2662	10.1416643	10.0910361	912	9.9099639	11
50 51	9.7674746 9.7676494	1748	10.2325254 10.2323506	9.8586019 9.8588680	2661	10.1413981 10.1411320	10.0911273 10.0912186	913	9.9088727 9.9087814	10
52	9.7678242	1748	10.2323300	9.8591341	2661	10.1408659	10.0912160	913	9.9086901	9
53	9.7679989	1747 1746	10.2320011	9.8594002	2661 2659	10.1405998	10.0914012	913 915	9.9085988	8 7
54	9.7681735	1745	10.2318265	9.8596661	2660	10.1403339	10.0914927	914	9.9085073	6
55	9.7683480	1743	10.2316520	9.8599321	2659	10.1400679	10.0915841	916	9.9084159	5
56 57	9.7685223	1743	10.2314777 10.2313034	9.8601980	2658	10.1398020 10.1395362	10.0916757	916	9.9083243	4
58	9.7686966 9.7688707	1741	10.2313034	9.8604638 9.8607296	2658	10.1393362	10.0917673 10.0918589	916	9.9082327 9.9081411	3 2
59	9.7690448	1741 1739	10.2309552	9.8609954	2658 2656	10.1390046	10.0919506	917 918	9.9080494	1
60	9.7692187		10.2307813	9.8612610		10.1387390	10.0920424		9.9079576	0
	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	1
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36°	1								1	48°
1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.7692187 9.7693925	1738	10.2307813	9.8612610	2657	10.1387390 10.1384733	10.0920424 10.0921342	918	9.9079576 9.9078658	60 59
2	9.7695662	1737 1736	10.2306075 10.2304338	9.861 <i>52</i> 67 9.861 <i>7</i> 923	2656 2655	10.1382077	10.0922260	918 920	9.9077740	58
3 4	9.7697398 9.7699134	1736	10.2302602	9.8620578 9.8623233	2655	10.1379422 10.1376767	10.0923180 10.0924099	919	9.9076820 9.9075901	57 56
5	9.7700868	1734 1733	10.2300866 10.2299132	9.8625887	2654 2654	10.1374113	10.0925020	921 921	9.9074980	55
6	9.7702601	1731	10.2297399	9.8628541	2654	10.1371459	10.0925941	921	9.9074059	54
7	9.7704332	1731	10.2295668	9.8631195	2653	10.1368805	10.0926862	922	9.9073138	53
8	9.7706063 9.7707793	1730	10.2293937 10.2292207	9.8633848 9.8636500	2652	10.1366152 10.1363500	10.0927784 10.0928707	923	9.9072216 9.9071293	52 51
10	9.7709522	1729 1727	10.2290478	9.8639152	2652 2651	10.1360848	10.0929630	923	9.9070370	50
11 12	9.7711249 9.7712976	1727	10.2288751 10.2287024	9.8641803 9.8644454	2651	10.1358197 10.1355546	10.0930554 10.0931478	924	9.9069446 9.90685 <del>22</del>	49
_		1726			2651		10.0932403	925	9.9067597	47
13 14	9.7714702 9.7716426	1724	10.2285298 10.2283574	9.8647105 9.8649755	2650	10.1352895 10.1350245	10.0933329	926	9.9066671	46
15	9.7718150	1724 1722	10.2281850	9.8652404	2649 2649	10.1347596	10.0934255	926 926	9.9065745	45
16 17	9.7719872 9.7721593	1721	10.2280128 10.2278407	9.8655053 9.8657702	2649	10.1344947 10.1342298	10.0935181 10.0936108	927	9.9064819 9.906389 <del>2</del>	44
18	9.7723314	1721	10.2276686	9.8660350	2648	10.1339650	10.0937036	928	9.9062964	42
19	9.7725033	1719 1718	10.2274967	9.8662997	2647 2647	10.1337003	10.0937964	928	9.9062036	41
20	9.7726751	1717	10.2273249	9.8665644	2647	10.1334356	10.0938893	939	9.9061107	40
21 22	9.7728468 9.7730185	1717	10.2271532 10.2269815	9.8668 <b>2</b> 91 9.86709 <b>3</b> 7	2646	10.1331709 10.1329063	10.0939823 10.0940753	930	9.9060177 9.9059247	39 38
23	9.7731900	1715 1714	10.2268100	9.8673583	2646 2645	10.1326417	10.0941683	930 931	9.9058317	37
24	9.7733614	1713	10.2266386	9.8676228	2645	10.1323772	10.0942614	932	9.9057386	36
25 26	9.7735327 9.7737039	1712	10.2264673 10.2262961	9.8678873 9.8681517	2644	10.1321127 10.1318483	10.0943546 10.0944478	932	9.9056454 9.9055522	35
27	9.7738749	1710 1710	10.2261251	9.8684160	2643 2644	10.1315840	10.0945411	933	9.9054589	34 33
28 29	9.7740459 9.7742168	1709	10.2259541	9.8686804	2642	10.1313196	10.0946344	934	9.9053656 9.9052722	32
30	9.7743876	1708	10.2257832 10.2256124	9.8689446 9.8692089	2643	10.1310554 10.1307911	10.0947278 10.0948213	935	9.9051787	31 30
31	9.7745583	1707	10.2254417	9.8694731	2642	10.1305269	10.0949148	935	9.9050859	29
32	9.7747288	1705 1705	10.2252712	9.8697372	2641 2641	10.1302628	10.0950084	936 936	9.9049916	28
33	9.7748993 9.7750697	1704	10.2251007 10.2249303	9.8700013 9.8702653	2640	10.1299987 10.1297347	10.0951020 10.0951957	937	9.9048980	27 26
35	9.7752399	1702 1702	10.2247601	9.8705293	2640 2640	10.1294707	10:0952894	937 938	9.9047106	25
36	9.7754101	1700	10.2245899	9.8707933	2639	10.1292067	10.0953832	938	9.9046168	24
37 38	9.7755801 9.7757501	1700	10.2244199	9.8710572	2638	10.1289428	10.0954770	939	9.9045230   9.9044291	23 22
39	9.7759199	1698	10.2242499 10.2240801	9.8713210 9.8715848	2638	10.1286790 10.1284152	10.0955709 10.0956649	940	9.9043351	21
40	9.7760897	1698 1696	10.2239103	9.8718486	2638 2637	10.1281514	10.0957589	940 941	9.9042411	20
41 42	9.7762593 9.7764289	1696	10.2237407 10.2235711	9.8721123 9.8723760	2637	10.1278877 10.1276240	10.0958530 10.0959471	941	9.9041470 9.9040529	19 18
43	9.7765983	1694	10.2234017	9.8726396	2636	10.1278604	10.0960413	942	9.9039587	17
44	9.7767676	1693 1693	10.2232324	9.8729032	2636 2636	10.1270968	10.0961356	943 943	9.9038644	16
45 46	9.7769369 9.7771060	1691	10.2230631 10.2228940	9.8731668	2634	10.1268332 10.1265698	10.0962299 10.0963243	944	9.90 <b>377</b> 01 9.90 <b>3</b> 6757	15 14
47	9.7772750	1690 1689	10.2227250	9.8734302 9.8736937	2635 2634	10.1263063	10.0964187	944 945	9.9035813	13
48	9.7774439	1689	10.2225561	9.8739571	2633	10.1260429	10.0965132	945	9.9034868	12
49	9.7776128	1687	10.2223872	9.8742204	2634	10.1257796	10.0966077	946	9.9033923 9.9032977	11
50 51	9.7777815 9.7779501	1686	10.222185 10.2220499	9.8744838 9.8747470	2632	10.1255162 10.1252530	10.0967023 10.0967969	946	9.9032031	10
52	9.7781186	1685 1684	10.2218814	9.8750102	2632 2632	10.1249898	10.0968916	947 948	9.9031084	8
53 54	9.7782870 9.7784553	1683	10.2217130 10.2215447	9.8752734 9.8755365	2631	10.1247266 10.1244635	10.0969864 10.0970812	948	9.9030136 9.9029188	6
55	9.7786235	1682	10.2213765	9.8757996	2631	10.1242004	10.0971761	949	9.9028239	5
56	9.7787916	1681 1680	10.2212084	9.8760627	2631 2630	10.1239373	10.0972711	950 950	9.9027289	4
57 58	9.7789596 9.7791275	1679	10.2210404	9.8763257	2629	10.1236743	10.0973661	950	9.9026339 9.9025389	3
59	9.7792953	1678	10.2208725 10.2207047	9.8765886 9.8768515	2629	10.1234114 10.1231485	10.0974611 10.0975562	951	9.9024438	1
60	9.7794630	1677	10.2205370	9.8771144	2629	10.1228856	10.0976514	952	9.9023486	0
	Co-sine.	Dif.	Secant,	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	<u>'</u>
190	go.									<b>58°</b>

379	)								1	4 <b>2°</b>
′	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	14
0	9.7794630	1676	10.2205370	9.8771144	2628	10.1228856	10.0976514	952	9.9023486	60
2	9.7796 <b>3</b> 06 9.7797981	1675	10.2203694 10.2202019	9.8773772 9.8776400	2628	10.1 <b>226228</b> 10.1 <b>2236</b> 00	10.0977466 10.0978419	953	9.90 <b>22534</b> 9.9021 <i>5</i> 81	59 58
3	9.7799655	1674	10.2202015	9.8779027	2627	10.1220978	10.0979372	953	9.9020628	57
4	9.7801328	1673	10.2198672	9.8781654	2627 2627	10.1218346	10.0980326	954 955	9.9019674	56
5	9.7803000	1672 1671	10.2197000	9.8784281	2626	10.1215719	10.0981281	955	9.9018719	55
6	9.7804671	1670	10.2195329	9.8786907	2626	10.1213093	10.0982236	956	9.9017764	54
7	9.7806341	1669	10.2193659	9.8739533	2625	10.1210467	10.0983192	956	9.9016808	53
8 9	9.7808010 9.7809677	1667	10.2191990 10.2190323	9.8792158 9.8794782	2624	10.1207842 10.1205218	10.0984148 10.0985105	957	9.9015852 9.9014895	52 51
10	9.7811344	1667	10.2188656	9.8797407	2625	10.1202593	10.0986062	957	9.9013938	50
iĭ	9.7813010	1666	10.2186990	9.8800031	2624 2623	10.1199969	10.0987020	958 959	9.9012980	49
12	9.7814675	1665	10.2135325	9.8802654	2623	10.1197346	10.0987979	959	9.9012021	48
13	9.7816339	1664	10.2183661	9.8805277	2623	10.1194723	10.0988938	960	9.9011062	47
14	9.7818002	1663 1662	10.2181998	9.8807900	2622	10.1192100	10.0989898	960	9.9010102	46
15	9.7819664 9.7821 <b>3</b> 24	1660	10.2180336 10.2173676	9.8810522 9.8813144	2622	10.1189478 10.1186856	10.0990858 10.0991819	961	9.9009142 9.9008181	45 44
17	9.7822984	1660	10.2177016	9.8815765	2621	10.1184235	10.0992781	962	9.9007219	43
18	9.7824643	1659	10.2175357	9.8818386	2621	10.1181614	10.0993743	962	9.9006257	42
19	9.7826301	1658	10.2173699	9.8821007	2621	10.1178993	10.0994706	963	9.9005294	41
20	9.7827958	1657	10.2172042	9.8823627	2620	10.1176373	10.0995669	963	9.9004331	40
21	9.7829614	1656 1654	10.2170386	9.8826246	2619 2620	10.1173754	10.0996633	964 964	9.9003367	39
22 23	9.7831268 9.7832922	1654	10.2168732 10.2167078	9.8828866 9.8831484	2618	10.1171134	10.0997597 10.0998562	965	9.9002403 9.9001438	38 37
24	9.7834575	1653	10.2165425	9.8834103	2619	10.1168516 10.1165897	10.0999528	966	9.9000472	36
25		1652		9.8836721	2618			966		35
26	9.7836227 9.7837878	1651	10.2163773 10.2162122	9.8839338	2617	10.1163279 10.1160662	10.1000494 10.1001461	967	9.8999506 9.8998539	34
27	9.7839528	1650	10.2160472	9.8841956	2618	10.1158044	10.1002428	967	9.8997572	33
28	9.7841177	1649 1647	10.2158823	9.8844572	2616 2617	10.1155428	10.1003396	968 968	9.8996604	32
29 30	9.7842824	1647	10.2157176	9.8847189	2616	10.1152811	10.1004364	969	9.8995636	31 30
	9.7814471	1646	10.2155529	9.8849805	2615	10.1150195	10.1005333	970	9.8994667	_
31	9.7846117	1645	10.2153883	9.8852420	2615	10.1147580	10.1006303	970	9.8993697	29
32	9.7847762 9.7849406	1644	10.2152238 10.2150594	9.8855035 9.8857650	2615	10.1144965 10.1142350	10.1007273   10.1008244	971	9.8992727 9.8991756	28 27
33 34	9.7851049	1643	10.2148951	9.8860264	2614 2614	10.1139736	10.1009216	972	9.8990784	26
35	9.7852691	1642 1641	10.2147309	9.8862878	2614	10.1137122	10.1010188	972 972	9.8989812	25
36	9.7854332	1640	10.2145668	9.8865492	2613	10.1134508	10.1011160	973	9.8988840	24
37	9.7855972	1639	10.2144028	9.8868105	2613	10.1131895	10.1012133	974	9.8987867	23
38	9.7857611	1638	10.2142389	9.8870718	2612	10.1129282	10.1013107	974	9.8986893	22
39 40	9.7859249 9.7860886	1637	10.2140751 10.2139114	9.8873330 9.8875942	2612	10.1126670 10.1124058	10.1014081 10.1015056	975	9.8985919 9.8984944	21 20
41	9.7862522	1636	10.2137478	9.8878554	2612	10.1121446	10.1016032	976	9.8983968	19
42	9.7864157	1635	10.2135843	9.8881165	2611	10.1118835	10.1017008	976	9.8982992	18
43	9,7865791	1634	10.2134209	9.8883775	2610	10.1116225	10.1017985	977	9.8982015	17
44	9.7867424	1633 1632	10.2132576	9.8886386	2611 2610	10.1113614	10.1018962	977 978	9.8981038	16
45 46	9.7869056	1631	10.2130944	9.8888996	2609	10.1111004	10.1019940	978	9.8980060	15
47	9,7870687 9,7872317	1630	10.2129313 10.2127683	9.8891605 9.8894214	2609	10.1108395 10.1105786	10.1020918 10.1021897	979	9.8979082 9.8978103	14 13
48	9.7873946	1629	10.2127053	9.8896823	2609	10.1103177	10.1022877	980	9.8977123	13
49	9.7875574	1628	10.2124426	9.8899432	2609	10.1100568	10.1023857	980	9.8976143	11
50	9.7877202	1628	10.2124426	9.8902040	2608	10.1100568	10.1023837	981	9.8975162	10
51	9.7878828	1626 1625	10.2121172	9.8904647	2607 2607	10.1095353	10.1025819	981 982	9.8974181	9
52	9.7880453	1624	10.2119547	9.8907254	2607	10.1092746	10.1026801	983	9.8973199	8
53 54	9.7882077 9.7883701	1624	10.2117923 10.2116299	9.8909861 9.8912468	2607	10.1090139 10.1087532	10.1027784 10.1028767	983	9.8972216 9.8971233	7
II —		1622			2606			984		
55 56	9.7885323 9.7886944	1621	10.2114677	9.891 <b>5</b> 074 9.891 <b>7</b> 6 <b>7</b> 9	2605	10.1084926 10.1082321	10.1029751 10.1030735	984	9.8970249 9.8969265	5
57	9.7888565	1621	10.2113036	9.8920285	2606	10.1082321	10.1030735	985	9.8968280	3
58	9.7890184	1619 1618	10.2109816	9.8922890	2605 2604	10.1077110	10.1032706	986 986	9.8967294	2
59	9.7891802	1618	10.2108198	9.8925494	2604	10.1074506	10.1033692	987	9.8966308	
60	9.7893420		10.2106580	9.8928098		10.1071902	10.1034679		9.8965321	0
	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	,
12	7°									5 <b>9</b> °

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<u></u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1'
0	9.7893420	1616	10.2106580	9.8928098	2604	10.1071902	10.1034679	987	9.8965321	60
1 2	9.7895036 9.7896652	1616	10.2104964 10.2103348	9.8930702 9.8933306	2604	10.1069298 10.1066694	10.1035666 10.1036654	988	9.8964334   9.8963346	
3	9.7898266	1614	10.2101734	9.8935909	2603	10.1064091	10.1037642	988	9.8962358	
4	9.7899880	1614 1613	10.2100120	9.8938511	2602 2603	10.1061489	10.1038631	989 990	9.8961369	56
5	9.7901493	1611	10.2098507	9.8941114	2601	10.1058886	10.1039621	990	9.8960379	
6	9.7903104	1611	10.2096896	9.8943715	2602	10.1056285	10.1040611	991	9.8959389	1
7	9.7904715	1610	10.2095285	9.8946317	2601	10.1053683	10.1041602	992	9.8958398	53
8 9	9.7906325 9.7907933	1608	10.2093675 10.2092067	9.8948918 9.8951519	2601	10.1051082 10.1048481	10.1042594 10.1043586	992	9.8957406 9.8956414	
10	9.7909541	1608	10.2090459	9.8954119	2600	10.1045881	10.1044578	992	9.8955422	
11	9.7911148	1607 1606	10.2088852	9.8956719	2600 2600	10.1043281	10.1045571	993 994	9.8954429	49
12	9.7912754	1605	10.2087246	9.8959319	2599	10.1040681	10.1046565	995	9.8953435	48
13	9.7914359	1604	10.2085641	9.8961918	2599	10.1038082	10.1047560	995	9.8952440	47
14	9.7915963	1603	10.2084037	9.8964517	2599	10.1035483	10.1048555	995	9.8951445	46
15 16	9.7917566 9.7919168	1602	10.2082434 10.2080832	9.8967116 9.8969714	2598	10.1032884 10.1030286	10.1049550 10.1050547	997	9.8950450 9.8949453	45
17	9.7920769	1601	10.2079231	9.8972312	2598	10.1027688	10.1051543	996	9.8948457	43
18	9.7922369	1600	10.2077631	9.8974910	2598	10.1025090	10.1052541	998	9.8947459	42
19	9.7923968	1599	10.2076032	9.8977507	2597	10.1022493	10.1053539	998	9.8946461	41
20	9.7925566	1598 1597	10.2074434	9.8980104	2597 2596	10.1019896	10.1054537	998 1000	9.8945463	40
21	9.7927163	1597	10.2072837	9.8982700	2596	10.1017300	10.1055537	999	9.8944463	39
22 23	9.7928760 9.7930355	1595	10.2071240 10.2069645	9.8985296 9.8987892	2596	10.1014704 10.1012108	10.10565 <b>3</b> 6 10,1057537	1001	9.8943464 9.8942463	38
24	9.7931949	1594	10.2068051	9.8990487	2595	10.1009513	10.1058538	1001	9.8941462	36
25	9.7933543	1594	10.2066457	9.8993032	2595	10.1006918	10.1059539	1001		l —
26	9.7935135	1592	10.2064865	9.8995677	2595	10.1006918	10.1059555	1003	9.8940461 9.8939458	35 34
27	9.7936727	1592 1590	10.2063273	9.8998271	2594 2594	10.1001729	10.1061544	1002	9.8938456	33
28	9.7938317	1590	10.2061683	9.9000865	2594	10.0999135	10.1062548	1004	9.8937452	32
29 30	9.7939907 9.7941496	1589	10.2060093 10.2058504	9.9003459 9.9006052	2593	10.0996541 10.0993948	10.1063552 10.1064556	1004	9.8936448	31
1 1		1587			2593			1005	9.8935444	30
31 32	9.7943083	1587	10.2056917	9.9008645	2592	10.0991355	10.1065561	1006	9.8934439	29
33	9,7944670 9,7946256	1586	10.2055330 10.2053744	9.9011237 9.9013830	2593	10.0988763 10.0986170	10.1066567 10.1067574	1007	9.8933433 9.8932426	28 27
34	9.7947841	1585 1584	10.2052159	9.9016422	2592 2591	10.0983578	10.1068581	1007 1007	9.8931419	26
35	9.7949425	1583	10.2050575	9.9019013	2591 2591	10.0980987	10.1069588	1008	9.8930412	25
36	9.7951008	1582	10.2048992	9.9021604	2591	10.0978396	10.1070596	1009	9.8929404	24
37	9.7952590	1581	10.2047410	9.9024195	2591	10.0975805	10.1071605	1010	9.8928395	23
38	9.7954171	1580	10.2045829	9.9026786	2590	10.0973214	10.1072615	1010	9.8927385	22
39 40	9.7955751 9.7957330	1579	10.2044249 10.2042670	9.9029376 9.9031966	2590	10.0970624 10.0968034	10.1073625 10.1074635	1010	9.8926375 9.8925365	21
41	9.7958909	1579	10.2041091	9.9034555	2589	10.0965445	10.1075646	1011	9.8924354	20 19
42	9.7960486	1577	10.2039514	9.9037144	2589	10.0962856	10.1076658	1012	9.8923342	18
43	9.7962062	1576	10.2037938	9.9039733	2589	10.0960267	10.1077671	1013	9.8922329	17
44	9.7963638	1576 1574	10.2036362	9.9042321	2588 2589	10.0957679	10.1078684	1013 1013	9.8921316	16
45	9.7965212	1574	10.2034788	9.9044910	2587	10.0955090	10.1079697	1014	9.8920303	15
46 47	9.7966786 9.7968359	1573	10.2033214 10.2031641	9.9047497 9.9050085	2588	10.0952503 10.0949915	10.1080711 10.1081726	1015	9.8919289	14
48	9.7969930	1571	10.2030070	9.9052672	2587	10.0947328	10.1082742	1016	9.8918274 9.8917258	13 12
49		1571			2587			1016		_
49 50	9.7971501 9.7973071	1570	10.2028499 10.2026929	9.9055259 9.9057845	2536	10.0944741 10.0942155	10.1083758 10.1084774	1016	9.8916242 9.8915226	11
51	9.7974640	1569	10.2025360	9.9060431	2586 2536	10.0939569	10.1085792	1018 1017	9.8914208	10 9
52	9.7976208	1568 1567	10.2023792	9.9063017	2586	10.0936983	10.1086809	1019	9.8913191	8
53	9.7977775	1566	10.2022225	9.9065603	2585	10.0934397	10.1087828	1019	9.8912172	7
54	9.7979341	1565	10.2020659	9.9068188	2585	10.0931812	10.1088847	1020	9.8911153	_6
55	9.7980906	1564	10.2019094	9.9070773	2584	10.0929227	10.1089867	1020	9.8910133	5
56 57	9.7982470 9.7984034	1564	10.2017530 10.2015966	9.9073357 9.9075941	2584	10.0926643 10.0924059	10.1090887 10.1091908	1021	9.8909113 9.8908092	4
58	9.7985596	1562	10.2013900	9.9078525	2584	10.0924039	10.1091908	1021	9.8907071	3 2
59	9.7987158	1562 1560	10.2012842	9.9081109	2584 2583	10.0918891	10.1093951	1022 1023	9.8906049	1
60	9.7988718		10.2011282	9.9083692	2000	10.0916308	10.1094974	1020	9.8905026	0
1	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	7
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<u>'</u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	1
0	9.7988718	1500	10.2011282	9.9083692	OROR	10.0916308	10.1094974	1000	9.8905026	60
i l	9.7990278	1560	10.2009722	9.9086275	2533	10.0913725	10.1095997	1023	9.8904003	59
2	9.7991836	1558	10.2008164	9.9088858	2583	10.0911142	10.1097021	1024	9.8902979	58
3	9.7993394	1558	10.2006606	9.9091440	2582	10.0908560	10.1098046	1025	9.8901954	57
4	9.7994951	1557	10.2005049	9.9094022	2582	10.0905978	10.1099071	1025	9.8900929	56
5	9.7996507	1556	10.2003493	9.9096603	2581	10.0903397	10.1100097	1026	9.8899903	55
6	9.7998062	1555	10.2001938	9.9099185	2582	10.0900815	10.1101123	1026	9.8898877	54
		1554			2581			1027		_
7	9.7999616	1553	10.2000384	9.9101766	2581	10.0898234	10.1102150	1028	9.8897850	53
8	9.8001169	1552	10.1998831	9.9104347	2580	10.0895653	10.1103178	1028	9.8896822	5%
9	9.8002721	1551	10.1997279	9.9106927	2580	10.0893073	10.1104206	1029	9.8896794	51
10	9.8004272	1551	10.1995728	9.9109507	2580	10.0890493	10.1105235	1029	9.8894765	50
11	9.8005823	1519	10.1994177	9.9112087	2579	10.0887913	10.1106264	1030	9.8893736	49
12	9.8007372		10.1992628	9.9114666		10.0885334	10.1107294		9.8892706	48
13	9.8008921	1549	10.1991079	9.9117245	2579	10.0882755	10.1108325	1031	9.8891675	47
14	9.8010468	1547	10.1989532	9.9119824	2579	10.0880176	10.1109356	1031	9.8890644	46
15	9.8012015	1547	10.1987985	9.9122403	2579			1032	9.8889612	45
16	9.8013561	1546	10.1986439	9.9124981	2578	10.0877597	10.1110388	1032	9.8888580	44
17	9.8015106	1545	10.1984894	9.9124961	2578	10.0875019	10.1111420	1033	9.8887547	43
18		1543			2578	10.0872441	10.1112453	1034		42
	9.8016649	1543	10.1983351	9.9130137	2577	10.0869863	10.1113487	1034	9.8886513	_
19	9.8018192		10.1981808	9.9132714		10.0867286	10.1114521		9.8885479	41
20	9.8019735	1543	10.1980265	9.9135291	2577	10.0864709	10.1115556	1035	9.8884444	40
21	9.8021276	1541	10.1978724	9.9137868	2577	10.0862132	10.1116592	1036	9.8883408	40 39
22	9.8022816	1540	10.1977184	9.9140444	2576	10.0859556	10.1117628	1036	9.8882372	38
23	9.8024355	1539	10.1975645	9.9143020	2576	10.0856980	10.1118665	1037	9.8881335	37
24	9.8025894	1539	10.1974106	9.9145596	2576	10.0854404	10.1119702	1037	9.8880296	36
		1537			2575			1038		
25	9.8027431	1537	10.1972569	9.9148171	2576	10.0851829	10.1120740	1039	9.8879260	35
26	9.8028968	1536	10.1971032	9.9150747	2575	10.0849253	10.1121779	1039	9.8878221	34
27	9.8030504	1534	10.1969496	9.9153322	2574	10.0846678	10.1122818	1040	9.8877182	33
28	9.8032038	1534	10.1967962	9.9155896	0575	10.0844104	10.1123858	1040	9.8876142	32
29	9.8033572	1533	10.1966428	9.9158471	2575 2574	10.0841529	10.1124898	1041	9.8875102	31
30	9.8035105		10.1964895	9.9161045		10.0838955	10.1125939	t	9.8874061	30
31	9.8036637	1532	10 1009909	0.0169610	2573	10.0000000	10 1100001	1042	9.8873019	29
32	9.8038168	1531	10.1963363	9.9163618	2574	10.0836382	10.1126981	1042	9.8871977	23
33		1531	10.1961832	9.9166192	2573	10.0833808	10.1128023	1043		28 27
34	9.8039699	1529	10.1960301	9.9168765	2573	10.0831235	10.1129066	1044	9.8870934	26
35	9.8041228	1529	10.1958772	9.9171338	2573	10.0828662	10.1130110	1044	9.8869890	25
36	9.8042757 9.8041284	1527	10.1957243	9.9173911	2572	10.0826089	10.1131154	1045	9.8868846	24
30	9.0041204	1527	10.1955716	9.9176483	2572	10.0823517	10.1132199	1045	9.8867801	24
37	9.8045811		10.1954189	9.9179055		10.0820945	10.1133244	1	9.8366756	23
38	9.8047336	1525	10.1952664	9.9181627	2572	10.0818373	10.1134290	1046	9.8865710	22
39	9.8048861	1525	10.1951139	9.9184198	2571	10.0815802	10.1135337	1047	9.8864663	21
40	9.8050385	1524	10.1949615	9.9186769	2571	10.0813231	10.1136384	1047	9.8863616	20
41	9.8051908	1523	10.1948092	9.9189340	2571	10.0810660	10.1137432	1048	9.8862568	19
42	9.8053430	1522	10.1946570	9.9191911	2571	10.0808089	10.1138481	1049	9.8861519	18
		1521			2570			1049		_
43	9.8054951	1521	10.1945049	9.9194481	2570	10.0805519	10.1139530	1050	9.8860470	17
44	9.8056472	1519	10.1943528	9.9197051	2570	10.0802949	10.1140580	1050	9.8859420	16
45	9.8057991	1519	10.1942009	9.9199621	2570	10.0800379	10.1141630	1050	9.8858370	15
46	9.8059510	1517	10.1940490	9.9202191	2569	10.0797809	10.1142681	1052	9.8857319	14
47	9.8061027	1517	10.1938973	9.9204760	2569 2569	10.0795240	10.1143733	1052	9.8856267	13
48	9.8062544		10.1937456	9.9207329		10.0792671	10.1144785		9.8855215	12
49		1516		0.0000000	2569		10 1145000	1053	0.0054169	
	9.8064060	1515	10.1935940	9.9209898	2568	10.0790102	10.1145838	1053	9.8854162	11
50	9.8065575	1514	10.1934425	9.9212466	2568	10.0787534	10.1146891	1054	9.8853109	10
51	9.8067089	1513	10.1932911	9.9215034	2568	10.0784966	10.1147945	1055	9.8852055	9
52	9.8068602	1512	10.1931398	9.9217602	2568	10.0782398	10.1149000	1055	9.8851000	8
53	9.8070114	1512	10.1929886	9.9220170	2567	10.0779830	10.1150055	1056	9.8849945	6
54	9.8071626		10.1928374	9.9222737	2567	10.0777263	10.1151111		9.8848889	6
55	9.8073136	1510	10.1926864	9.9225304		10.0774696	10.1152168	1057	9.8847832	5
56	9.8074646	1510			2567			1057		
57		1508	10.1925354	9.9227871	2566	10.0772129	10.1153225	1058	9.8846775	4
58	9.8076154	1508	10.1923846	9.9230437	2567	10.0769563	10.1154283	1058	9.8845717	3 2
59 59	9.8077662	1507	10.1922338	9.9233004	2566	10.0766996	10.1155341	1060	9.8844659	
60	9.8079169	1506	10.1920831	9.9235570	2565	10.0764430	10.1156401	1059	9.8843599	1 0
00	9.8080675		10.1919325	9.9238135		10.0761865	10.1157460		9.8842540	
1	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	,
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<u></u>	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	,
0	9.8080675	1505	10.1919325	9.9238135	2566	10.0761865	10.1157460	1061	9.8842540	60
	9.8082180 9.8083684	1504	10.1917820	9.9240701	2565	10.0759299	10.1158521	1061	9.8841479	59
3	9.8085188	1504	10.1916316 10.1914812	9.9243 <b>2</b> 66 9.9245831	2565	10.07567 <b>3</b> 4 10.0754169	10.1159582 10.1160643	1061	9.8840418 9.8839357	58 57
4	9.8086690	1502	10.1913310	9.9248396	2565	10.0751604	10.1161706	1063	9.8838294	56
5	9.8088192	1502 1500	10.1911808	9.9250960	2564 2564	10.0749040	10.1162768	1062	9.8837232	55
6	9.8089692	1500	10.1910308	9.9253524		10.0746476	10.1163832	1064	9.8836168	54
7	9.8091192	1499	10.1908808	9.9256088	2564	10.0743912	10.1164896	1064	9.8835104	53
8	9.8092691	1498	10.1907309	9.9258652	2564 2563	10.0741348	10.1165961	1065 1065	9.8834039	52
.9	9.8094189	1497	10.1905811	9.9261215	2563	10.0738785	10.1167026	1066	9.8832974	51
10 11	9.8095686 9.8097182	1496	10.1904314 10.1902818	9.9 <b>2</b> 63778 9.9266341	2563	10.0736222 10.0733659	10.1168092 10.1169159	1067	9.8831908 9.8830841	50 49
12	9.8098678	1496	10.1901322	9.9268904	2563	10.0731096	10.1170226	1067	9.8829774	48
13	9.8100172	1494	10.1899828	9.9271466	2562			1068		_
14	9.8101666	1494	10.1898334	9.9274028	2562	10.0728534 10.0725972	10.1171294 10.1172362	1068	9.8828706 9.8827638	47 46
.15	9.8103159	1493 1491	10.1896841	9.9276590	2562 2562	10.0723410	10.1173432	1070	9.8826568	45
16	9.8104650	1491	10.1895350	9.9279152	2561	10.0720848	10.1174501	1069 1071	9.8825499	44
17 18	9.8106141	1490	10.1893859	9.9281713	2561	10.0718287	10.1175572	1071	9.8824428	43
<u>  </u>	9.8107631	1490	10.1892369	9.9284274	2561	10.0715726	10.1176643	1072	9.8823357	42
19	9.8109121	1488	10.1890879	9.9286835	2561	10.0713165	10.1177715	1072	9.8822285	41
20 21	9.8110609 9.8112096	1487	10.1889391 10.1887904	9.9289396	2560	10.0710604	10.1178787	1073	9.8821213	40
22	9.8113583	1487	10.1886417	9.9291956 9.9294516	2560	10.0708044 10.0705484	10.1179860 10.1180933	1073	9.8820140 9.8819067	39 38
23	9.8115069	1486 1485	10.1884931	9.9297076	2560	10.0702924	10.1182008	1075	9.8817992	37
24	9.8116554	1484	10.1883446	9.9299636	2560	10.0700364	10.1183082	1074	9.8816918	36
25	9.8118038	1483	10.1881962	9.9302195	2559	10.0697805	10.1184158	1076	9.8815842	35
26	9.8119521	1482	10.1880479	9.9304755	2560 2559	10.0695245	10.1185234	1076 1077	9.8814766	34
27	9.8121003	1481	10.1878997	9.9307314	2558	10.0692686	10.1186311	1077	9.8813689	33
28 29	9.8122484 9.8123965	1481	10.1877516 10.1876035	9.9309872	2559	10.0690128	10.1187388	1078	9.8812612	32
30	9.8125444	1479	10.1874556	9.9312431 9.9314989	2558	10.0687569 10.0685011	10.1188466 10.1189545	1079	9.8811534 9.8810455	31 30
31	9.8126923	1479			2558			1079		
32	9.8128401	1478	10.1873077 10.1871599	9.9317547 9.9320105	2558	10.0682453 10.0679895	10.1190624 10.1191704	1080	9.8809376 9.8808296	29 28
33	9.8129878	1477	10.1870122	9.9322662	2557	10.0677338	10.1192785	1081	9.8807215	27
34	9.8131354	1476 1475	10.1868646	9.9325220	2558 2557	10.0674780	10.1193866	1081 1082	9.8806134	26
35 36	9.8132829	1474	10.1867171	9.9327777	2557	10.0672223	10.1194948	1082	9.8805052	25
	9.8134303	1474	10.1865697	9.9330334	2556	10.0669666	10.1196030	1083	9.8803970	24
37	9.8135777	1473	10.1864223	9.9332890	2556	10.0667110	10.1197113	1084	9.8802887	23
38 39	9.8137250	1471	10.1862750	9.9335446	2557	10.0664554	10.1198197	1084	9.8801803	22
40	9.8138721 9.8140192	1471	10.1861279 10.1859808	9.9338003 9.9340559	2556	10.0661997 10.0659441	10.1199281 10.1200366	1085	9.8800719 9.8799634	21 20
41	9.8141662	1470	10.1858338	9.9343114	2555	10.0656886	10.1201452	1086	9.8798548	19
42	9.8143131	1469	10.1856869	9.9345670	2556	10.0654330	10.1202538	1086	9.8797462	18
43	9.8144600	1469	10.1855400	9.9348225	2555	10.0651775	10.1203625	1087	9.8796375	17
44	9.8146067	1467 1467	10.1853933	9.9350780	2555 2555	10.0649220	10.1203023	1088 1088	9.8795287	16
45	9.8147534	1465	10.1852466	9.9353335	2554	10.0646665	10.1205801	1089	9.8794199	15
46	9.8148999 9.8150464	1465	10.1851001	9.9355889	2555	10.0644111	10.1206890	1089	9.8793110	14
48	9.8151928	1464	10.1849536 10.1848072	9.9358444 9.9360998	2554	10.0641556 10.0639002	10.1207979 10.1209070	1091	9.8792021 9.8790930	13 12
49		1463			2554			1090		_
50	9.8153391 9.8154854	1463	10.1846609 10.1845146	9.9363552	2553	10.0636448	10.1210160	1092	9.8789840 9.8788748	11 10
51	9.8156315	1461	10.1843685	9.9366105 9.9368659	2554	10.0633895 10.0631341	10.1211252 10.1212344	1092	9.8787656	
52	9.8157776	1461 1459	10.1842224	9.9371212	2553 2553	10.0628788	10.1213437	1093 1093	9.8786563	9 8 7
53 54	9.8159235	1459	10.1840765	9.9373765	2553	10.0626235	10.1214530	1093	9.8785470	7
I — I	9.8160694	1458	10.1839306	9.9376318	2553	10.0623682	10.1215624	1095	9.8784376	6
55	9.8162152	1457	10.1837848	9.9378871	2552	10.0621129	10.1216719	1095	9.8783281	5
56 57	9.8163609 9.8165066	1457	10.1836391	9.9381423	2552	10.0618577	10.1217814	1096	9.8782136	4
58	9.8166521	1455	10.1834934 10.1833479	9.9383975 9.9386527	2552	10.0616025 10.0613473	10.1218910 10.1220006	1096	9.8781090 9.8779994	3
59	9.8167975	1454	10.1832025	9.9389079	2552	10.0610921	10.1220006	1098	9.8778896	2
60	9.8169429	1454	10.1830571	9.9391631	2552	10.0608369	10.1222201	1097	9.8777799	ō
7	Co-sine.	Dif.	Secant.	Co-tang.	Dif.	Tangent.	Co-secant.	Dif.	Sine.	1
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<b>-</b> /1	Sine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dif.	Co-sine.	17		
0	9.8169429 9.8170882	1453 1452	10.1830571 10.1829118	9.9391631 9.9391182	2551 2551	10.0608369 10.0605818	10.1222201 10.1223300	1099	9.8777799 9.8776700	60 59		
2 3 4	9.8172334 9.8173785 9.8175235	1451 1450	10.1827666 10.1826215 10.1824765	9.9396733 9.9399 <del>2</del> 84 9.9401835	2551 2551	10.0603267 10.0600716 10.0598165	10.1224399 10.1225499 10.1226599	1099 1100 1100	9.8775601 9.8774501	58 57		
5 6	9.8176685 9.8178133	1450 1448	10.1823315 10.1821867	9.9404385 9.9406936	2550 2551	10.0595615 10.0593064	10.1220399 10.1227700 10.1228802	1101 1102	9.8773401 9.8772300 9.8771198	56 55 54		
7 8	9.8179581 9.8181028	1448 1447 1446	10.1820419 10.1818972	9.9409486 9.9412036	2550 2550 2549	10.0590514 10.0587964	10.1229904 10.1231007	1102 1103	9.8770096 9.8768993	53 52		
9 10 11	9.8182474 9.8183919 9.8185364	1445 1445	10.1817526 10.1816081 10.1814636	9.9414585 9.9417135 9.9419684	2550 2549	10.0585415 10.0582865 10.0580316	10.1232111 10.1233215 10.1234320	1104 1104 1105	9.8767889 9.8766785	51 50 49		
12	9.8186807	1443 1443	10.1813193	$\frac{9.9422233}{9.9424782}$	2549 2549	10.0577767	10.1235426	1106 1106	9.8765680 9.8764574	48		
14 15	9.8189692 9.8191133	1442 1441 1440	10.1810308 10.1808867	9.942 <b>73</b> 31 9.94298 <b>7</b> 9	2549 . 2548 2549	10.0572669 10.0570121	10.1237639 10.1238747	1107 1108 1108	9.8763468 9.8762361 9.8761253	47 46 45		
16 17 18	9.8192573 9.8194012 9.8195450	1439 1438	10.1807427 10.1805988 10.1804550	9.9432428 9.9434976 9.9437524	2548 2548	10.0567572 10.0565024 10.0562476	10.1239855 10.1240964 10.1242073	1109 1109	9.8760145 9.8759036 9.8757927	44 43 42		
19 20	9.8196888 9.8198325	1438 1437	10.1803112 10.1801675	9.9440072 9.9442619	2548 2547	10.0559928 10.0557381	10.1243184	1111 1110	9.8756816 9.8755706	41 40		
21 22 23	9.8199761 9.8201196 9.8202630	1436 1435 1434	10.1800239 10.1798804	9.9445166 9.9447714	2547 2548 2547	10.0554834 10.0552286 10.0549739	10.1245406 10.1246518	1112 1112 1113	9.8754594 9.8753482	39 38		
23 24 25	9.8204063 9.8205496	1433 1433	10.1797370 10.1795937 10.1794504	9.9450261 9.9452807 9.9455354	2546 2547	10.0547193	10.1247631 10.1248744	1113 1114	9.8752369 9.8751256	37 36		
26 27	9.8206927 9.8208358	1431 1431 1430	10.179 <b>3</b> 073 10.1791642	9.9457900 9.9460447	2546 2547 2546	10.0542109 10.0539553	10.1249858 10.1250973 10.1252088	1115 1115 1117	9.8750142 9.8749027 9.8747912	35 34 33 32		
28 29 30	9.8209788 9.8211217 9.8212646	1429 1429	10.1790212 10.1788783 10.1787354	9.9462993 9.9465539 9.9468084	2546 2545	10.0537007 10.0534461 10.0531916	10.1253205 10.1254321 10.1255439	1116 1118	9.8746795 9.8745679 9.8744561	32 31 30		
31 32	9.8214073 9.8215500	1427 1427 1426	10.1785927 10.1784500	9.9470630 9.9473175	2546 2545 2545	10.0529370 10.0526825	10.1256557 10.1257675	1118	9.8743443 9.8742325	29 28		
33 34 35	9.8216926 9.8218351 9.8219775	1425 1424	10.1783074 10.1781649 10.1780225	9.9475720 9.9478265 9.9480810	2545 2545	10.0524230 10.0521735 10.0519190	10.1258795 10.1259915 10.1261035	1120 1120 1120	9.8741205 9.8740085 9.8738965	27 26 25		
36	9.8221198 9.8222621	1423	10.1778802	9.9483355 9.9485899	2545 2544	10.0516645	10.1262156	1121 1122	9.8737844 9.8736722	24 23		
38 39 40	9.8224042 9.8225463	1421 1421 1420	10.1 <b>775</b> 958 10.1 <b>77453</b> 7	9.9488443 9.9490987	2544 2544 2544	10.0511557 10.0509013	10.1264401 10.1265524	1123 1123 1124	9.8735599 9.8734476	22 21		
41 42	9.8226883 9.8228302 9.8229721	1419 1419 1417	10.1773117 10.1771698 10.1770279	9.9493531 9.9496075 9.9498619	2544 2544	10.0506469 10.0503925 10.0501381	10.1266648 10.1267773 10.1268898	1125 1125	9.8733352 9.8732227 9.8731102	20 19 18		
43 44	9.8231138 9.8232555	1417 1416	10.1768862 10.1767445	9.9501162 9.9503705	2543 2543 2543	10.0498838 10.0496295	10.1270024 10.1271151	1126 1127 1127	9.8729976 9.8728849	17 16		
45 46 47	9.8233971 9.8235386 9.8236800	1415 1414 1413	10.1766029 10.1764614 10.176 <b>32</b> 00	9.9506248 9.9508791 9.9511334	2543 2543 2542	10.0493752 10.0491209 10.0488666	10.1272278 10.1273406 10.1274534	1128 1128 1129	9.8727722 9.8726594 9.8725466	15 14 13		
48 49	9.8238213 9.8239626	1413 1411	10.1761787	9.9513876 9.9516419	2543 2542	10.0486124	10.1275663	1130 1131	9.8724337 9.8723207	$\frac{12}{11}$		
50 51 52	9.8241037 9.8242448 9.8243858	1411 1410	10.1758963 10.1757552 10.1756142	9.9518961 9.9521503 9.9524045	2542 2542	10.0481039 10.0478497 10.0475955	10.1277924 10.1279055 10.1280187	1131 1132	9.8722076 9.8720945 9.8719813	10 9 8		
53 54	9.8245267 9.8246676	1409 1409 1407	10.1754733 10.1753324	9.9526587 9.9529128	2542 2541 2542	10.0473413 10.0470872	10.1281319 10.1282452	1132 1133 1134	9.8718681 9.8717548	6		
55 56 57	9.8248083 9.8249490 9.8250896	1407 1406	10.1751917 10.1750510 10.1749104	9.9531670 9.9534211 9.9536752	2541 2541	10.0468330 10.0465789 10.0463248	10.1283586 10.1284721 10.1285856	1135 1135	9.8716414 9.8715279 9.8714144	5 4 3		
58 59	9.8252301 9.8253705	1405 1404 1404	10.1747699 10.1746 <b>2</b> 95	9.9539293 9.9541834	2541 2541 2540	10.0460707 10.0458166	10.1286992 10.1288128	1136 1136 1137	9.8713008 9.8711872	2		
60	9.8255109 Co-sine.	Dif.	10.1744891 Secant.	9.9544374 Co-tang.	Dif.	10.0455626 Tangent.	10.1289265 Co-secant.	Dif.	9.8710735 Sine.	-		
1.81	l°								4	18°		

49	420 1370											
1	Sinc.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dic.	Co-sine.	<u></u>		
0	9.8255109	1403	10.1744891	9.9544374	2541	10.0455626	10.1289265	1138	9.8710735	60		
1 2	9.8256512 9.8257913	1401	10.1743488 10.1742087	9.9546915 9.9549455	2540	10.0453085 10.0450545	10.1290403 10.1291542	1139	9.8709597 9.8708458	59 58		
3	9.8259314	1401	10.1740686	9,9551995	2540	10.0448005	10.1292681	1139	9.8707319	57		
4	9.8260715	1401	10.1739285	9.9554535	2540	10.0145465	10.1293821	1140	9.8706179	56		
5	9.8262114	1399 1398	10.1737886	9.9557075	2540 2540	10.0442925	10.1294961	1140 1141	9.8705039	55		
6	9.8263512		10.1736488	9.9559615	2539	10.0440385	10.1296102		9.8703898	54		
7	9.8264910	1398	10.1735090	9.9562154		10.0437846	10.1297244	1142	9.8702756	53		
8	9.8266307	1397 1396	10.1733693	9.9564694	2540 2539	10.0435306	10.1298387	1143 1143	9.8701613	52		
9	9.8267703	1395	10.1732297	9.9567233	2539	10.0432767	10.1299530	1144	9.8700470	51 50		
10	9.8269098 9.8270493	1395	10.1730902 10.1729507	9.9569772 9.9572311	2539	10.0430228 10.0427689	10.1300674 10.1301818	1144	9.8699326 9.8698182	49		
12 l	9.8271887	1394	10.1728113	9.9574850	2539	10.0425150	10.1302963	1145	9.8697037	48		
13	9.8273279	1392	10.1726721	9.9577389	2539	10.0422611	10.1304109	1146	9.8695891	47		
	9.8274671	1392	10.1725329	9.9579927	2538	10.0422017	10.1305256	1147	9.8694744	46		
14 15	9.8276063	1392	10.1723937	9.9582465	2538 2539	10.0417535	10.1306403	1147	9.8693597	45		
16	9.8277453	1390 1390	10.1722547	9.9585004	2538	10.0414996	10.1307551	1148 1148	9.8692449	44		
17	9.8278843	1388	10.1721157	9.9587542	2538	10.0412458	10.1308699	1149	9.8691301	43		
18	9.8280231	1388	10.1719769	9.9590080	2538	10.0409920	10.1309+48	1150	9.8690152	42		
19	9.8281619	1387	10.1718381	9.9592618	2537	10.0407382	10.1310 /98	1151	9.8689002	41		
20 21	9.8283006	1387	10.1716994	9.9595155	2538	10.0404845 10.0402307	10.1312149	1151	9.8687851 9.8686700	40 39		
22	9.8284393 9.8285778	1385	10.1715607 10.1714222	9.9597693 9.9600230	2537	10.0399770	10.1313300 10.1314452	1152	9.8685548	38		
23	9.8287163	1385	10.1712837	9.9602767	2537	10.0397233	10.1315604	1152	9.8684396	37		
24	9.8288547	1384	10.1711453	9.9605305	2538	10.0394695	10.1316758	1154	9.8683242	36		
25	9.8289930	1383	10.1710070	9.9607842	2537	10.0392158	10.1317912	1154	9.8682088	35		
26	9.8291312	1382 1382	10.1708688	9.9610378	2536 2537	10.0389622	10.1319066	1154	9.8680934	34		
27	9.8292694	1381	10.1707306	9.9612915	2537	10.0387085	10:1320221	1155 1156	9.8679779	33		
28	9.8294075	1379	10.1705925	9.9615452	2536	10.0384548	10.1321377	1157	9.8678623	32		
29 30	9.8295454 9.8296833	1379	10.1704546 10.1703167	9.9617988 9.9620525	2537	10.0382012 10.0379475	10.1322534 10.1323691	1157	9.8677466 9.8676309	31 30		
		1379			2536			1158		I I		
31	9.8298212	1377	10.1701788	9.9623061	2536	10.0376939	10.1324849	1159	9.8675151	29		
32 33	9.8299589 9.8300966	1377	10.1700411 10.1699034	9.9625597 9.9628133	2536	10.0374403 10.0371867	10.1326008 10.1327167	1159	9.8673992 9.8672833	28 97		
34	9.8302342	1376	10.1697658	9.9630669	2536 2535	10.0369331	10.1328327	1160	9.8671673	27 26		
35	9.8303717	1375 1374	10.1696283	9.9633204	2536	10.0366796	10.1329488	1161 1161	9.8670512	25		
36	9.8305091	1373	10.1694909	9.9635740	2535	10.0364260	10.1330649	1162	9.8669351	24		
37	9.8306464	1373	10.1693536	9.9638275	2536	10.0361725	10.1331811	1163	9.8668189	23		
38	9.8307837	1372	10.1692163	9.9640811	2535	10.0359189	10.1332974	1163	9.8667026	22		
39 40	9.8309209	1371	10.1690791	9.9643346	2535	10.0356654	10.1334137	1164	9.8665863	21		
41	9.8310580 9.8311950	1370	10.1689420 10.1688050	9.9645881 9.9648416	2535	10.0354119 10.0351584	10.1335301 10.1336466	1165	9.8664699 9.8663534	20 19		
42	9.8313320	1370	10.1686680	9.9650951	2535	10.0349049	10.1337631	1165	9.8662369	18		
43	9.8314688	1368	10.1685312	0.0659406	2535	10.0316514		1166	0.0661909	I I		
44	9.8316056	1368	10.1683944	9.9653486 9.9656020	2534 2535	10.0346514 10.0343980	10.1338797 10.1339964	1167	9.8661203 9.8660036	17 16		
45	9.8317423	1367 1366	10.1682577	9.9658555	2534 2534	10.0341445	10.1341132	1168 1168	9.8658868	15		
46	9.8318789	1366	10.1681211	9.9661089	2534	10.0338911	10.1342300	1169	9.8657700	14		
47 48	9.8320155 9.8321519	1364	10.1679845	9.9663623	2534	10.0336377 10.0333843	10.1343469 10.1344638	1169	9.8656531	13		
		1364	10.1678481	9.9666157	2535			1170	9.8655362	12		
49	9.8322883	1363	10.1677117	9.9668692	2533	10.0331308	10.1345808	1171	9.8654192	11		
50 51	9.8324246 9.8325609	1363	10.1675754 10.1674391	9.9671225 9.9673759	2534	10.0328775 10.0326241	10.1346979 10.1348151	1172	9.8653021 9.8651849	10		
52	9.8326970	1361	10.1673030	9.9676293	2534	10.0320241	10.1349323	1172	9.8650677	8		
53	9.8328331	1361 1360	10.1671669	9.9678827	2534 2533	10.0321173	10.1350496	1173 1173	9.8649504	7		
54	9.8329691	1359	10.1670309	9.9681360	2533	10.0318640	10.1351669		9.8648331	6		
55	9.8331050	1358	10.1668950	9.9683893	2534	10.0316107	10.1352844	1175 1175	9.8647156	5		
56	9.8332408	1358	10.1667592	9.9686427	2533	10.0313573	10.1354019	1175	9.8645981	4		
57 58	9.8333766 9.8335122	1356	10.1666234	9.9688960	2533	10.0311040	10.1355194	1177	9.8644806	3		
59	9.8336478	1356	10.1664878   10.1663522	9.9691493 9.9694026	2533	10.0308507 10.0306974	10.1356371 10.1357548	1177	9.8643629 9.8642452	2 1		
60	9.8337833	1355	10.1662167	9.9696559	2533	10.0303441	10.1358725	1177	9.8641275	ő		
1	Co-sine.	Dif.	Secant.	Co-tang.	Dif.		Co-secant.	Dif	Sine.			
II	l coatee.	1 4/u.	, DOUBLES.	1 CO-USING.	יווע ו	Tangent.	O'BOCKELL.	, DIL.	i prue.	<u>'</u>		
18	2°									470		

1	7 56 60 59 77 56 55 54 1 53 52 44 55 0 54 49 48 8 8 2 47 46 66 45	Co-sine.  9.8641275 9.864096 9.8638917 9.8636577 9.8635376 9.8635376 9.8635318 9.8638011 9.8638014 9.863829460 9.862827088 9.8627088	1179 1179 1180 1180 1181 1182 1183 1183 1184	10.1358725 10.1359904 10.1361083 10.1362263 10.1363443 10.1364624 10.1365806	10.0303441 10.0300909	Dif.	Tangent.	Co-secant.	Dic		43° 136°												
1 9,3339188 1325 10,1660812 9,999091 2323 10,0300909 10,1359904 117 9,86408 3 9,9701674 2533 10,0295876 10,1361083 1179 9,86308 3 9,9701674 2533 10,0295876 10,1361083 1179 9,86308 2532 10,029579 10,1364624 1181 9,86306 6 9,8344597 1361 10,1654052 9,9711755 2533 10,029579 10,1364624 1181 9,86306 1182 9,8354064 1349 10,1651304 9,9710480 2532 10,029571 10,1363680 1182 9,86304 1345 10,1650206 9,9719350 10,029571 10,1363689 1183 9,8631 119 9,8356308 1345 10,1645967 9,9726945 2531 10,0295714 10,1365809 1183 9,86307 119 9,8356361 1345 10,1645967 9,9726945 2531 10,0295714 10,1365809 1184 9,835066 1184 10,1645967 9,9726945 2531 10,0295714 10,1365809 1184 9,86306 1182 9,8356308 1345 10,1645967 9,9726945 2531 10,0295714 10,1365809 1184 9,86306 1184 9,8356572 1344 10,1645967 9,9726945 2531 10,0295781 10,1370540 1184 9,86306 1184 9,8356572 1344 10,1645967 9,9736971 2531 10,0295781 10,1370540 1184 9,86306 1184 9,8356061 1340 10,1645969 9,9736971 2531 10,0295361 10,1370540 1184 9,86307 1342 10,1645969 9,9736971 2531 10,0295781 10,1370540 1188 9,86307 1342 10,1645969 9,9736071 2531 10,02957867 10,1370540 1188 9,86307 1349 10,1645969 9,9736071 2531 10,02957867 10,1370540 1188 9,86307 1349 10,1645969 9,9736071 2531 10,02957867 10,1370540 1188 9,86307 1349 10,1645969 9,9736071 2531 10,02957867 10,138042 1190 9,86311 129 9,836471 1350 10,1635809 9,9736970 2530 10,0295780 10,138180 1193 9,86181 1357 10,1645969 9,9762579 2530 10,0295991 10,1380801 1193 9,86181 1357 10,1645969 9,9762579 2530 10,0295901 10,1380577 1190 9,86181 1359 10,1646969 9,9762579 2530 10,0295791 10,1380580 1197 9,86181 1359 10,1646969 9,9762579 2530 10,0295791 10,1380580 1197 9,86181 10,1645969 9,9762579 2530 10,0295791 10,1380580 1197 9,86181 10,1645969 9,9762579 2530 10,0295791 10,1380591 1199 9,86181 10,1645969 9,9762579 2530 10,0295791 10,1380591 1199 9,86181 10,144591 10,144591 1195 9,86181 1195 9,86380 1195 9,9762579 10,0295791 10,1380591 1199 9,86060 1315 10,1646969 9,9786969 1250 10,0295791 10,14416071 1200 9,88569 1315 10,166969 9,9786969 1250 10,029579	6 59 7 58 7 57 6 55 4 54 1 53 28 52 4 51 60 50 74 49 88 48 48 12 47 46 46 45	9.8640096 9.8638917 9.8637737 9.8636557 9.8635376 9.8634194 9.8633011 9.8631828 9.8630644 9.8629460 9.8629469 9.8628274 9.8627088	1179 1180 1180 1181 1182 1183 1183 1184	10.1359904 10.1361083 10.1362263 10.1363443 10.1364624 10.1365806	10.0300909			i	Dit.	Sine.	1												
1 9,8339188 1335	6 59 7 58 7 57 6 55 4 54 1 53 28 52 4 51 60 50 74 49 88 48 48 12 47 46 46 45	9.8640096 9.8638917 9.8637737 9.8636557 9.8635376 9.8634194 9.8633011 9.8631828 9.8630644 9.8629460 9.8629469 9.8628274 9.8627088	1179 1180 1180 1181 1182 1183 1183 1184	10.1359904 10.1361083 10.1362263 10.1363443 10.1364624 10.1365806	10.0300909	0.00	9.9696559	10,1662167		9.8337833	0												
2 9,8340541 1305 10.1635405 9.9701624 2533 10.0293876 10.1361083 1180 9.86367   5 9,8344548 1305 10.1635405 9.9701629 2532 10.0293311 10.1363403 1180 9.86367   6 9,8345948 1305 10.1655405 9.9711754 2533 10.0293311 10.1363806 1182 9.86365   9 9,8345948 1349 10.1651006 9.9711805 2532 10.02931 10.1365806 1182 9.86341   10 9,8351341 1347 10.1648769 9.971869 2532 10.028182 10.1363806 1184 9.86305   10 9,8351341 1347 10.1648769 9.971869 2532 10.0280500 10.1369356 1184 9.86305   12 9,835403 1345 10.1645967 9.9726945 2531 10.0275567 10.1371766 1186 9.86327   14 9,8356769 1344 10.1640592 9.9739707 2531 10.0275687 10.137186 1188 9.86328   15 9,8356769 1344 10.1640592 9.9739707 2531 10.0275687 10.137186 1188 9.86321   18 9,8356301 1341 10.163730 9.9742133 2531 10.0275687 10.137186 1188 9.86321   18 9,8356780 1344 10.1640592 9.9739707 2531 10.0275687 10.137186 1188 9.86321   18 9,8356780 1344 10.1640592 9.9739707 2531 10.0270523 10.137686 1188 9.86321   18 9,8356780 1344 10.163730 9.9742133 2531 10.0270523 10.137686 1188 9.86321   18 9,8356781 1340 10.163263 9.9742763 2531 10.0270523 10.137686 1188 9.86321   19 9,8356781 1340 10.163269 9.9745766 2531 10.025099 10.137686 1188 9.86321   19 9,8356781 1340 10.163269 9.9745766 2531 10.025099 10.137686 1188 9.86321   19 9,8356781 1340 10.163269 9.9745766 2531 10.025099 10.137686 1188 9.86321   19 9,8356781 1340 10.163269 9.9745769 2531 10.025091 10.138080 1 199 9.86222   19 9,8376781 1335 10.1625675 9.976499 9.9745786 2531 10.025091 10.138360 1 199 9.86121   22 9,8376790 1335 10.1625876 9.9764879 9.975780   23 9,8376790 1335 10.1625876 9.9764879 9.975780   23 9,8376790 1337 10.1625879 9.9765879 9.975980   23 9,8376790 1337 10.1626869 9.9786879   23 9,8386968 1340 10.1616859 9.9786879   23 9,8386968 1340 10.1616859 9.9786879   23 9,8386968 1340 10.1616859 9.9786879   24 9,8390782 1335 10.16161830 9.978698   25 9,8396684 1392 10.1616989 9.9786879   25 9,8396684 1392 10.1616989 9.9786879   25 9,8396684 1392 10.1616989 9.9786879   25 9,8396684 1392 10.1616989 9.9786879   25 9,839668	7 58 77 57 77 56 66 55 64 54 1 53 88 52 84 51 60 50 74 49 88 48 12 47 46 45	9.8638917 9.86367737 9.8636557 9.8635376 9.8634194 9.8630011 9.8630644 9.8628274 9.8628274 9.8627088 9.8625902	1180 1180 1181 1182 1183 1183 1184	10.1362263 10.1363443 10.1364624 10.1365806	10 0000276		9.9699091																
4         9.8343246   3052   0.10.6560754   9.9706689   2532   10.0290779   10.1564624   10.15654052   9.9711754   2533   10.0288246   10.1565806   1182   9.86345   10.15654052   9.9711875   2532   10.0288246   10.1365806   1182   9.86345   10.15654054   9.9718618   2532   10.0283182   10.13661872   1182   9.834181   1193   9.83434   1193   0.16162549   9.976379   2.533   0.0227497   0.1338040   1193   9.83434   1193   0.16162549   9.976379   2.533   0.0227490   0.13384   1193   9.83434   1193   9.83434   1193   0.1616359   9.976379   2.533   0.0227474   0.1383617   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   9.8618   1193   0.1616359   9.976379	7 56 6 55 4 54 1 53 28 52 4 51 60 50 74 49 88 48 92 47 4 46 66 45	9.8636557 9.8635376 9.8634194 9.8633011 9.8631828 9.8630644 9.8629460 9.8629460 9.8627088 9.8625902	1180 1181 1182 1183 1183 1184	10.1363443 10.1364624 10.1365806				10.1659459		9.8340541	2												
5         9,83449697         1351         10.1654052         9,970921         2532         10.2290779         10.1364024         1181         9,86305           6         9,8345948         1351         10.1654052         9,9711734         2532         10.2290779         10.1366084         1183         9,86347           8         9,834994         1347         10.1663050         9,971818         25,32         10.0280246         10.1366989         1183         9,863114           11         9,83349994         1347         10.1647312         9,971818         25,32         10.0280260         01.1370540         1184         9,8630114           12         9,8354903         1345         10.1644622         9,972945         2532         10.0275567         10.1371726         1186         9,86276           14         9,8356908         1342         10.16449278         9,973908         2531         10.0275567         10.13717409         1186         9,86276           15         9,8356606         1342         10.1637909         9,9734213         2531         10.0265941         10.1376424         1188         9,86221           18         9,8356747         1338         10.1637699         9,9742133         2531         1	6 55 4 54 1 53 28 52 4 51 60 50 74 49 88 48 92 47 4 46 66 45	9.8635376 9.8634194 9.8633011 9.8631828 9.8630644 9.8629460 9.8628274 9.8627088 9.8625902	1181 1182 1183 1183 1184	10.1364624 10.1365806																			
6         9.8345948         1361         10.1654059         9.9711754         2532         10.288246         11.365806         1182         9.86341           7         9.8347297         1349         10.1653054         9.9711851         2532         10.288261         11.365806         1183         9.86331           8         9.8348646         1348         10.165006         9.971365         25.32         10.288714         10.1366805         11.368805         1183         9.86331           10         9.8351341         1347         10.164669         9.971365         25.32         10.0285118         10.136935         1184         9.86301           12         9.8356732         1344         10.1644622         9.9729477         25.33         10.0273055         10.1371726         1186         9.8622           15         9.8356722         1344         10.1644622         9.9729477         25.33         10.02679055         10.1371726         1186         9.86227           16         9.8356906         1342         10.1639250         9.9734533         25.33         10.0265992         10.1376861         1188         9.86227           17         9.8366471         1340         10.1639250         9.9747413         25.3	1 54 1 53 28 52 14 51 60 50 74 49 88 48 92 47 4 46 96 45	9.8634194 9.8633011 9.8631828 9.8630644 9.8629460 9.8628274 9.8627088 9.8625902	1182 1183 1183 1184	10.1365806																			
7 9.8347297   1349   10.1654354   9.9718618   2532   10.0285714   10.1536989   1183   9.86305   1199   9.834994   1347   10.1646659   9.9719350   2532   10.0285182   10.1370540   1184   9.86305   1199   9.8352688   1345   10.1644629   9.9729473   2532   10.0273055   10.1371926   1186   9.86226   129.8354033   1345   10.1644629   9.9729473   2532   10.0273055   10.1371926   1186   9.86226   129.8356378   1344   10.1644629   9.9729477   2532   10.0273055   10.1371926   1186   9.86226   129.8356968   1342   10.1644629   9.9739008   2531   10.02659461   10.1376476   1188   9.86226   129.83569408   1342   10.1643978   9.9734578   2531   10.02659461   10.1376476   1188   9.86226   129.83569408   1342   10.1637909   9.9744674   2531   10.0253661   10.1386032   1190   9.86127   129.8356109   1338   10.1633699   9.9744974   2531   10.0253661   10.138042   1190   9.86126   129.8356171   1338   10.1632563   9.9744674   2531   10.0252905   10.1386932   1190   9.86126   129.8356171   1338   10.1632563   9.9744674   2531   10.0252606   10.1380422   1191   9.86126   129.8356147   1337   10.1632169   9.9745726   2531   10.0252606   10.138042   1191   9.86126   129.8356147   1337   10.1632169   9.97567318   2531   10.0246261   10.1386903   1193   9.86126   129.8356148   1332   10.1622678   9.9756309   2530   10.0246213   10.1383693   1195   9.86126   129.8356147   1334   10.1632678   9.9756309   2530   10.0235601   10.1383693   1195   9.86126   129.835648   1332   10.1622678   9.9756309   2530   10.0235601   10.1383693   1193   9.86126   129.835648   1332   10.1622678   9.9756309   2530   10.0235601   10.1383693   1195   9.86126   129.835669   1376   10.1606047   9.9797797   2530   10.0222470   10.1393677   1201   9.86036   120.222400   10.1405919   120.440510   10.1406401   120.440510   120.440510   10.1406401   120.440510   120.440510   120.440510   120.440510   10.1406401   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510   120.440510	1 53 28 52 44 51 50 50 74 49 88 48 92 47 4 46 66 45	9.8633011 9.8631828 9.8630644 9.8629460 9.8628274 9.8627088 9.8625902	1183 1184			2533																	
8         9.83472971         349         10.1653703         9.9714286         2.93         10.0283182         10.1936172         1184         9.8631994         1348         10.1653066         9.97191850         2532         10.0280650         10.1370540         1184         9.86311         1347         10.1643679         9.9728945         2532         10.0275867         10.1371926         1186         9.86282           12         9.8354033         1345         10.1644927         9.9729415         2532         10.0275867         10.1371926         1186         9.86282           14         9.8356782         1344         10.1644934         9.973971         2532         10.0267992         10.1374998         1188         9.86247           15         9.8358908         1342         10.1639250         9.973971         2531         10.0267992         10.137662         1188         9.86247           18         9.8362901         1341         10.1639250         9.9749735         2531         10.0265981         10.1377642         1188         9.86247           19         9.8364761         1338         10.163299         9.9747195         2531         10.0267981         10.1376861         1188         9.86221           21	28 52 14 51 50 50 14 49 18 48 12 47 14 46 26 45	9.8631828 9.8630644 9.8629460 9.8628274 9.8627088 9.8625902	1183 1184	10 1366090				10.1004002	1349	9.0340340	1												
9   9.334994   1347   10.165006   9.9719350   2532   10.0280550   10.1369356   1184   9.83610   119.8352688   1345   10.1646659   9.9729475   2532   10.0273055   10.1379291   1186   9.86231   12.13750540   12.13750540   1186   9.86231   12.13750540   1186   9.86231   12.13750540   12.13750540   1186   9.86231   12.13750540   12.1375054	14 51 50 50 74 49 48 48 48 46 45	9.8630644 9.8629460 9.8628274 9.8627088 9.8625902	1184																				
10   9.8351341   1347   10.1646669   9.9721862   2531   10.0273056   10.1370540   1186   9.86225   12   9.835033   1345   10.1647312   9.9724413   2532   10.0275587   10.1371726   1186   9.86225   1349   10.1643278   9.9739477   2531   10.0270523   10.1370286   1186   9.86225   16   9.839606   1344   10.1643278   9.9739459   2531   10.0256379   10.1370286   1186   9.86225   16   9.839606   1344   10.1643278   9.9739459   2531   10.0256992   10.1377662   1186   9.86225   16   9.836471   1340   10.1635290   9.9744765   2531   10.0256361   10.137632   1186   9.86225   1186   9.86225   1186   9.86225   1186   9.86225   1186   9.86225   10.0260398   10.1378285   1186   9.86225   1	50 50 74 49 18 48 92 47 14 46 26 45	9.8629460 9.8628274 9.8627088 9.8625902								9.8348646													
11   9.8352688   1347   10.1647312   9.9724913   2532   10.0275587   10.1371726   1186   9.80282   12   9.8354033   1345   10.1644622   9.9739008   2533   10.0267992   10.137098   1186   9.80282   12   9.83560762   1344   10.1644934   9.9734593   2532   10.0267992   10.1376474   1188   9.86231   10.939408   1342   10.1641934   9.9734593   2533   10.0267992   10.1376474   1188   9.86231   179   9.8350769   1341   10.1639250   9.9739008   2531   10.0267992   10.13766474   1188   9.86231   12   12   12   12   12   12   12	4 49 18 48 12 47 4 46 45	9.8628274 9.8627088 9.8625902				2532	9.9719350	10.1650006		9.8349994													
12   9.8354078   1345   10.1645967   9.9729457   2531   10.0273055   10.1372912   1166   9.8356784   1342   10.1641934   9.97334539   2531   10.0265461   10.1376474   1188   9.86231   17   9.8560750   1342   10.163092   9.9737071   2531   10.0265461   10.1376474   1188   9.86231   17   9.8560750   1341   10.163092   9.9734539   2531   10.0265461   10.1376474   1188   9.86231   10.0265461   10.1376474   1188   9.86231   10.0263471   1340   10.163099   9.9744195   2531   10.0263999   10.1377662   1190   9.86231   10.0263661   10.1376474   1188   9.86231   10.026361   10.0263999   10.1377662   1190   9.86231   10.0263991   10.137662   1190   9.86231   10.026399	8 48 92 47 4 46 6 45	9.8627088 9.8625902				2531	0.9721002		1347	0 9359690													
134   9.8356778   1344   10.1643978   9.973908   2531   10.0267992   10.1375286   1188   9.86231   15   9.8356066   1342   10.1643929   9.9739071   2531   10.0267992   10.1376474   1188   9.86231   16   9.83560786   1342   10.1630592   9.9739072   2531   10.0260398   10.1376474   1188   9.86231   17   9.8360786   1341   10.1637909   9.9744674   2531   10.0260398   10.1378552   1190   9.86172   121   9.8366109   1338   10.1633891   9.9749718   2531   10.0260398   10.1378552   1190   9.86172   121   9.8366109   1338   10.1633891   9.9749718   2531   10.025536   10.1382494   1191   9.86172   121   9.8366109   1338   10.1632539   9.9745787   2531   10.0255074   10.1838171   1193   9.86172   122   9.8367447   1337   10.1631216   9.9754787   2531   10.0245021   10.1384810   10.163791   9.9757318   2531   10.0245021   10.1384810   10.0245021   10.1387197   1195   9.86172   10.163719   10.163719   9.9757318   10.0245021   10.138392   1195   9.86172   10.163719   10.1637	2 47 4 46 6 45	9.8625902	1186			2532	9.9726945		1345														
14	4 46 6 45		1186			2532			1345		_												
16	6 45	0.0004714	1188			2531			1344														
16																							
18	8 44	9.8622338																					
18   9.836299   1341   10.1637909   9.9742133   2531   10.0257867   10.1380042   1191   9.86192   1192   9.8364771   1338   10.1635293   9.9749726   2531   10.0252805   10.1383233   1191   9.86187   120   9.836171   1338   10.1635253   9.9749726   2531   10.0252805   10.1383617   1193   9.86187   120   9.8374121   1337   10.1631216   9.9754787   2531   10.0245213   10.1386101   1193   9.86187   120   9.8371416   1337   10.1628543   9.975287   2531   10.0247743   10.1384810   1193   9.86187   120   10.242812   10.1387197   1194   9.86187   120   10.242812   10.1387197   1194   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1387197   1195   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.1389588   1194   9.86187   120   10.242812   10.24		9.8621148																					
19   9.8363431   1340   10.1636569   9.9744664   2531   10.0255365   10.025205   10.0382494   1193   9.86162   129   9.8367447   1337   10.1632553   9.9752257   2531   10.025205274   10.13834810   1193   9.86162   129   9.837647   1337   10.1631216   9.9754787   2531   10.0246213   10.1384810   1193   9.86162   129   9.8370121   1335   10.1629879   9.9757318   2531   10.0246213   10.1386003   1193   9.86162   129   9.83774126   1335   10.1629879   9.9757318   2531   10.0246213   10.1386003   1193   9.86162   129   9.83774126   1335   10.1629879   9.9758949   2530   10.0246213   10.1389588   1194   9.86182   129   9.8376486   1332   10.1625210   9.976970   2530   10.0235091   10.1389588   1197   9.86004   2530   2530   2530   10.0235091   10.1390785   1197   9.86004   2530		9.8619958	1																				
19.   9.8364771   1348   10.1633829   9.9747195   2531   10.025205   10.1382494   1193   9.86161   1293   9.8367447   1337   10.1632563   9.9752257   2531   10.025205274   10.1384810   1193   9.86161   1293   9.836747   1337   10.1631216   9.9754787   2531   10.0247743   10.1384810   1193   9.86161   1293   9.8370121   1335   10.1629879   9.9757318   2531   10.0246213   10.1386003   1193   9.86161   1293   9.8371425   1334   10.1627209   9.9756739   2530   10.0246213   10.1389588   1194   9.86192   1294	- -					i i					10												
21   9.8366109   1338   10.1633891   9.9749726   2531   10.0250274   10.1383617   1193   9.86162   23   9.8367874   1337   10.1629879   9.9757318   2531   10.0242682   10.1387197   1195   9.86162   2531   2531   10.0242682   10.1387197   1195   9.86162   2531   2531   10.0242682   10.1387197   1195   9.86162   2531   253		9.8617576																					
23   9.8367847   1337   10.1632563   9.9752257   2530   10.02445213   10.13868103   1193   9.86135     24   9.8370121   1335   10.1623879   9.9754787   2530   10.0242682   10.1387197     25   9.8371456   1335   10.1627309   9.9762379   2530   10.0235021   10.1383992   1196   9.86101     27   9.8374125   1335   10.1622875   9.9764909   2530   10.0235021   10.1389588   1197   9.86092     28   9.8375458   1332   10.1624542   9.9767440   2530   10.0235021   10.1391982   1197   9.86092     29   9.8376790   1332   10.1623210   9.9769370   2530   10.0235001   10.1391982   1197   9.86092     29   9.8376791   1332   10.1623210   9.9769370   2530   10.0235001   10.1391982   1197   9.86092     30   9.8381212   1339   10.1623878   9.9772500   2530   10.0223500   10.1391392   1197   9.86092     31   9.8379453   1330   10.1620547   9.9777560   2530   10.0224970   10.1395577   1199   9.86043     32   9.8380783   1332   10.1612581   9.9780320   2530   10.0214970   10.1395778   1199   9.86093     33   9.838411   1328   10.1616559   9.9782620   2530   10.0214851   10.1400381   1203   9.86993     35   9.8386066   1327   10.1616231   9.9787679   2530   10.0214851   10.1400381   1203   9.86994     39   9.839072   134   10.1609604   9.9797797   2550   10.0204732   10.1401584   1203   9.86994     41   9.8392719   1332   10.1606604   9.9797797   2529   10.0204732   10.1401584   1203   9.88984     42   9.8396064   1320   10.1600607   9.9800326   2529   10.0194615   10.1410222   1208   9.88984     43   9.8395383   1321   10.1600677   9.9812972   2529   10.0194615   10.1410222   1208   9.8888     44   9.8396032   1317   10.1596724   9.9820569   2529   10.0187028   10.1416499   1210   9.8886     44   9.8396032   1317   10.1596724   9.9820569   2529   10.0187028   10.1416499   1210   9.8886   1317   10.1596774   9.9820569   10.0176913   10.1400781   1211   9.8886   1213   9.88874   1317   10.1596774   9.9820569   10.0176913   10.1400781   1211   9.8886   1213   9.888074   1317   10.1596774   9.9820569   10.0176913   10.1410489   1214   0		9.8616383									21												
24   9.8368784   1537   10.1631216   9.9754787   2531   10.0242682   10.1387197   1194   9.86132   1252   9.8371426   1335   10.1628544   9.9759849   2530   10.0237621   10.1389588   1197   9.861612   1252   12	nol 38	9.8615190				2531	9.9752257				22												
25 9.8371426 1335 10.1628544 9.9759849 2530 10.0240151 10.1338392 1196 9.86110 2375418 1334 10.1628729 9.9762379 2530 10.0237621 10.1339588 1197 9.86110 2375418 1332 10.1628519 9.9767440 2530 10.0235961 10.1339198 1197 9.86068 1302 10.1623210 9.976970 2530 10.0232560 10.139198 1197 9.86068 1302 10.1623210 9.976970 2530 10.0230030 10.1391379 1199 9.86061 2530 10.0237500 10.1393179 1199 9.86061 2530 10.0237500 10.1394378 1199 9.86061 2530 10.0224750 10.023030 10.1393179 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0224500 10.1394378 1199 9.86061 2530 10.0219310 10.1396777 1200 9.86061 2530 10.0219310 10.1396777 1200 9.86061 2530 10.0219310 10.1396777 1200 9.86061 2530 10.0219310 10.1396777 1200 9.86061 2530 10.0219310 10.1396777 1200 9.86061 2530 10.0219310 10.1400381 1203 10.1613904 9.9787679 2530 10.0219321 10.1400381 1203 9.85984769 1325 10.1612578 9.9790209 2530 10.0219321 10.1400381 1203 9.85984769 1325 10.1612578 9.9790209 2530 10.0219321 10.1400381 1203 9.85984769 1325 10.1608604 9.9797797 2529 10.0204732 10.1400381 1203 9.85961 1322 10.1608604 9.9797797 2529 10.0204732 10.1405196 1205 9.85944 19.8399323 10.1606864 9.9797797 2529 10.0204732 10.1405196 1205 9.85944 19.8399323 10.1606867 9.9800386 2530 10.0199674 10.1406801 1205 9.85944 1319 10.1608561 9.9807814 2529 10.0199674 10.1416849 1210 9.88861 1301 10.1598587 9.981597 1259 10.0184499 10.1414859 1210 9.88861 1301 10.1596407 9.9823087 2529 10.0184499 10.1414849 1210 9.88861 19.9840698 1315 10.1596407 9.9823087 2529 10.0176913 10.14169081 1213 9.88881 131 10.1596407 9.9823087 2529 10.0176913 10.14160401 1211 1211 9.88881 1213 9.88881 1213 9.88881 1213 9.88881 1213 9.88881 1213 9.88881 1213 9.88881 1213 9.88881 1213 9.88881	n   37	9.8613997			10.0245213		9.9754787																
25   9.8371466   1335   10.1622544   9.9759849   2530   10.0237621   10.1389588   1197   9.86081   197   9.9777560   10.0224970   10.139577   190   9.86081   190   9.88981	13 36	9.8612803		10.1387197	10.0242682		9.9757318	10.1629879		9.8370121	24												
27 9.8374125 1333 10.16225875 9.9764309 2531 10.0232560 10.1390785 1197 9.86089 2531 10.0232560 10.1390785 1197 9.86089 2531 10.0232560 10.1390785 1197 9.86089 2531 10.0232560 10.1391982 1197 9.86089 2530 10.0232560 10.1391982 1197 9.86089 2530 10.0232560 10.1391982 1197 9.86089 2530 10.0232560 10.139182 1197 9.86089 2530 10.0232560 10.139182 1197 9.86089 2530 10.0232560 10.1391827 1197 9.86089 2530 10.0222560 10.139182 1197 9.86089 2530 10.0222560 10.139182 1197 9.86089 2530 10.0222560 10.139182 1197 9.86089 2530 10.0222560 10.139182 1197 9.86089 2530 10.0222560 10.139182 1197 9.86089 2530 10.0222560 10.1391827 12019 9.86089 2530 10.0222440 10.1396777 12019 9.86089 2530 10.0218361 10.1395777 12019 9.86089 2530 10.0218361 10.1400381 1203 9.86099 2530 10.0218361 10.1400381 1203 9.86999 2530 10.0218361 10.1401584 1203 9.86999 2530 10.0218361 10.1401584 1203 9.86999 2530 10.0218361 10.1401584 1203 9.86999 2530 10.0218361 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 2530 10.0204732 10.1401584 1203 9.86999 10.1404891 1203 9.86999 10.1404891 1203 9.86999 10.1404891 1204 9.85999 10.14048814 1208 1208 9.86999 10.14048814 1208 1208 9.86999 10.1404891 1208 9.86999 10.1404891 1208 9.88999 10.14048814 1209 9.88999 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 10.1404891 1209 9.88899 1209 9.88899 1209 9.88899 1209 9.889999 1209 9.88899 1209 9.888999 1209 9.889999 1209 9.889999 1209 9.889999 1209 9.889999 1209 9.889999 1	8 35	9.8611608	, ,	10.1388392	10.0240151	1	9.9759849	10.1628544		9.8371456	25												
28   9.8374458   1332   10.1624542   9.9767440   2530   10.0235091   10.1391982   1197   9.86080   2531   10.0235091   10.1391982   1197   9.86080   2530		9.8610412						10.1627209			26												
28   9.8376468   1332   10.1624542   9.9767440   2530   10.0232560   10.1391982   1197   9.86081   1332   10.162310   9.9772500   2530   10.0232560   10.1393478   1199   9.86081   1332   10.1621878   9.9772500   2530   10.0224970   10.1394378   1199   9.86081   1329   10.1619217   9.9777560   2530   10.0224970   10.1395577   1200   9.86032   1332   10.1619217   9.9777560   2530   10.0224970   10.1395777   1201   9.86032   10.023360   10.1391982   1199   9.86032   10.0224970   10.1395777   1201   9.86032   10.0213911   10.1395777   1201   9.86032   10.021391   10.1399179   1201   9.86032   10.021391   10.1399179   1201   9.86032   10.021391   10.1399179   1201   9.86032   10.021391   10.1399179   1201   9.86032   10.021391   10.1400381   1203   9.85942   10.1616531   9.9787679   2530   10.0213931   10.140787   1203   9.85942   10.161253   9.9787679   2530   10.0213231   10.140787   1203   9.85942   10.160928   9.9787679   2530   10.0207292   10.0207291   10.1407878   1203   9.85942   10.1606928   9.9797797   2529   10.0207293   10.1405196   1205   9.85942   10.160694   9.9797797   2529   10.0207203   10.1405196   1205   9.859434   1301   10.1606677   9.9803265   2529   10.0199674   10.140781   1208   9.85932   1319   10.1600677   9.9812972   2529   10.0189557   10.1410222   1208   9.85884   48   9.8396364   1320   10.1601996   9.9810443   2529   10.018957   10.141022   1208   9.85834   1301   10.1599567   9.9812972   2529   10.0189557   10.14104814   1208   1208   9.85854   1317   10.1596724   9.9820350   2529   10.018957   10.1410498   1210   9.85853   1317   10.1596724   9.9820367   2529   10.018957   10.14104981   1211   9.85853   1317   10.1596724   9.9820367   2529   10.018499   10.1414849   1211   9.85853   1316   10.15967674   9.9820367   2529   10.0176913   10.1410849   1211   9.85853   1316   10.15967674   9.9820367   2529   10.0176913   10.1410849   1211   9.85853   1317   10.15967674   9.9820367   2529   10.0176913   10.1410849   1211   9.85853   1317   10.15967674   9.9820367   2529   10.0176913	5 33	9.8609215		10.1390785				10.1625875		9.8374125													
10.1620210   9.376997   2.530   10.02227500   10.1394378   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139479   10.1616549   9.785620   10.022440   10.1396777   1201   9.86021   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139478   1199   9.86061   10.139479   1199   9.86061   10.139479   10.1616549   9.785620   10.0219310   10.1395777   1201   9.86021   10.139479   1199   9.86062   10.022440   10.1396777   1201   9.86062   10.0219310   10.139179   1201   9.86062   10.0219310   10.139179   1201   9.86062   10.0219310   10.1400381   1203   9.85964   10.161394   9.785679   10.0213231   10.1401544   1203   9.85964   1324   10.1609928   9.795268   2529   10.0204732   10.1403991   1205   9.85944   1322   10.1605959   9.980336   2529   10.0204732   10.1405196   1205   9.85944   1322   10.1605959   9.980585   2529   10.0199674   10.1406814   1206   9.85951   10.199674   10.1408814   1208   9.859644   1319   10.1600677   9.9812972   2529   10.0194615   10.141022   1208   9.85864   1319   10.1600677   9.9812972   2529   10.0194615   10.1410841   1208   9.85864   1319   10.1600677   9.9812972   2529   10.0187028   10.1413649   1210   9.85861   1317   10.1596724   9.9820559   10.0187028   10.1413649   1211   9.85861   10.14400381   1211   10.1594092   9.9825616   2529   10.0176913   10.1410898   1211   9.85861   10.14400088   1315   10.1596724   9.9820559   10.0176913   10.1440908   1214   9.85861   10.14400088   1315   10.1596724   9.9820559   10.0176913   10.1440908   1214   9.85801   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10.14400081   1316   10		9.8608018						10.1624542			28												
31   9.8379453   1330   10.1620547   9.9777509   2530   10.02224970   10.1395777   1200   9.86024   1329   10.1619217   9.9777560   2530   10.0222440   10.1396777   1201   9.86024   1329   10.1616559   9.9782620   2530   10.021930   10.021930   10.1396777   1201   9.86024   1328   10.1616523   9.9785149   2530   10.0214851   10.1400381   1203   9.8386066   1326   10.161958   9.9787679   2530   10.0214851   10.1400381   1203   9.85934   1325   10.1611253   9.9785769   2530   10.0214851   10.1400381   1203   9.85934   1325   10.1611253   9.9795268   2530   10.0204732   10.140584   1203   9.85934   1325   10.1609928   9.9797297   2529   10.0204732   10.1405991   1204   9.85954   1325   10.1607281   9.980326   2530   10.0204732   10.1405196   1205   9.85944   9.8396769   1325   10.1607281   9.980326   2530   10.019744   10.1407867   1206   9.85934   1322   10.1605669   9.980784   2529   10.019744   10.1408814   1208   9.85934   1329   10.1606677   9.980585   1326   10.1606677   9.9812972   2529   10.0197086   10.1411230   1209   9.85874   1317   10.1596874   9.9818030   2529   10.0187028   10.1416499   1210   9.85855   10.181028   1317   10.1596874   9.9830367   2529   10.0187028   10.1416499   1210   9.85855   10.0187028   10.1416499   1210   9.85855   10.0187028   10.1416499   1210   9.85855   10.0187028   10.1416499   1210   9.85855   10.181028   10.1416499   1210   9.85855   10.181028   10.1416499   1210   9.85855   10.181028   10.1416499   1210   9.85855   10.181028   10.1416499   1210   9.85855   10.181028   1317   10.1596874   9.9830367   9.982566   2529   10.0187028   10.1416495   1211   9.85855   10.181028   1317   10.15968774   9.9830367   2529   10.0176913   10.1416495   1213   9.85855   10.1607673   1317   10.15968774   9.9830367   2529   10.0176913   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1213   9.85857   10.1410288   1		9.8606821	1199								29												
31         9.8379485         130         10.1620547         9.9775090         2530         10.02224470         10.1396777         1200         9.8604           32         9.8382112         1329         10.1617883         9.9780900         2530         10.0222440         10.1396777         1200         9.8603           34         9.83834769         1329         10.1616529         9.9782620         2530         10.0219910         10.1396777         1201         9.8603           35         9.8384769         1327         10.1613904         9.9787679         2530         10.0212331         10.1400381         1201         9.8609           37         9.8387422         1325         10.1612578         9.9790209         2529         10.0212321         10.1401584         1203         9.8597           38         9.839072         1325         10.1612578         9.9792788         2530         10.0202762         10.1400381         1203         9.8597           39         9.8391396         1325         10.1608604         9.979778         2529         10.0202762         10.140591         1205         9.8594           42         9.8394041         1332         10.1608604         9.979778         2529         10.01904732	22 30	9.8605622		10.1394378	10.0227500		9.9772500	10.1621878	1	9.8378122	1 39)												
32         9.8382112         3199         10.1619217         9.9770500         2530         10.0222440         10.1397978         1901         9.80603           34         9.83832112         1329         10.1617888         9.9782620         2530         10.02119910         10.1397978         1901         9.86003           35         9.8384769         1327         10.1616231         9.9785149         2530         10.0211380         10.1397978         1902         9.85999           36         9.8386096         1327         10.1612578         9.979279         2530         10.02012321         10.1401584         1203         9.85999           38         9.8387482         1325         10.1612578         9.9790209         2529         10.02079791         10.1402787         1204         9.85974           39         9.8391396         1324         10.1606804         9.9797797         2529         10.0207262         10.1405819         1205         9.85944           40         9.8391396         1325         10.1606804         9.9797779         2529         10.01904732         10.1406401         1205         9.85944           42         9.8394041         1322         10.1606316         9.9802856         2529         <	23 29	9.8604423		10.1395577	10.0224970		9.9775030	** ****															
35         9.8382112         1329         10.1617838         9.97896290         2530         10.0219310         10.1399179         1201         9.86021           35         9.8384769         1327         10.1616231         9.9782620         2529         10.0214381         10.1400381         1203         9.85901           36         9.8386096         1326         10.1615231         9.9787679         2530         10.0214351         10.1401584         1203         9.859072           38         9.8388747         1325         10.1610293         9.9792738         2530         10.02077262         10.1401584         1203         9.85904           39         9.8390072         1324         10.1609928         9.9795268         2529         10.0204732         10.1405196         1204         9.85954           41         9.8392719         1322         10.1607281         9.980326         2529         10.0204732         10.1405196         1205         9.8594           42         9.8394041         1322         10.1606376         9.9805385         2529         10.0197144         10.1407607         1206         9.8592           45         9.8396024         1319         10.1600637         9.9815501         2529         1	23 28	9.8603223			10 0999440			10.1620547	1000	9.8379453													
35         9.8384769         1327         10.1616293         9.9785149         2530         10.0212321         10.1040381         1203         9.859898           36         9.8386096         1326         10.1613904         9.9785769         2530         10.0212321         10.1400381         1203         9.8598           37         9.8387422         1325         10.1612578         9.9792738         2530         10.0202732         10.1402787         1203         9.8598           39         9.8390072         1325         10.16012578         9.9792738         2530         10.0207262         10.1402787         1205         9.85964           40         9.8391505         1324         10.1609928         9.9797797         2529         10.0202733         10.1405196         1205         9.85964           41         9.8392719         1332         10.1606604         9.9797797         2529         10.0202203         10.1406401         1205         9.8593           42         9.8394041         1322         10.1604637         9.980586         2529         10.0194615         10.1406401         1207         9.8592           44         9.8396064         1321         10.16004637         9.980544         2529         10.0		9.8602022					9.9777560			9.8380783	31 32												
36         9.836696         1327         10.1613904         9.9787679         2530         10.0212321         10.1901584         1203         9.8598742           37         9.8387422         1325         10.1612578         9.9790209         2529         10.02079791         10.1402787         1294         9.8597           38         9.8388747         1325         10.1612573         9.9795268         2529         10.0207262         10.1405196         1205         9.85964           39         9.8391396         1323         10.1606604         9.9797797         2529         10.0202203         10.1405196         1205         9.85941           41         9.83923719         1322         10.1606604         9.9797797         2529         10.0199674         10.1406401         1205         9.85943           42         9.8394041         1322         10.1604637         9.9805385         2529         10.01997144         10.1408814         1207         9.8592           44         9.8396684         1320         10.1604637         9.9805385         2529         10.0194615         10.1410022         1208         9.8588           45         9.8399323         1319         10.1606677         9.9815501         2529		9.8600821		10.1397978	10.0219910	2530	9.9777560 9.9780090	10.1619217 10.1617888	1329	9.8380783 9.8382112	31 32 33												
377   9.8387482   1325   10.1612578   9.9790209   2529   10.0209791   10.1402787   1204   9.859673   9.8388747   1325   10.1601253   9.9792738   2530   10.0209792   10.1403991   1205   9.85964   1325   10.1609281   9.9800326   2529   10.0204732   10.1405196   1205   9.85944   1322   10.1607281   9.9800326   2529   10.0204732   10.1407607   1207   9.85921   1204   9.85921   1205   9.85943   1204   9.85921   1205   9.85943   1204   1205   9.85943   1205   9.85943   1205   9.85943   1205   9.85943   1205   9.85943   1205   9.85943   1205   9.85843   1205   10.0199674   10.1407607   1207   9.85843   1205   1205   9.85843   1205   9.85843   1205   9.85843   1205			1201	10.1397978 10.1399179	10.0219910 10.0217380	2530 2530	9.9777560 9.9780090 9.9782620	10.1619217 10.1617888 10.1616559	1329	9.8380783 9.8382112 9.8383441	31 32 33 34												
38         9.8388747         1325         10.1611253         9.9792738         2520         10.0207262         10.1403991         1205         9.85964           40         9.8391396         1324         10.1606804         9.9797797         2529         10.0207262         10.1406401         1205         9.85934           41         9.83943961         1322         10.1606804         9.9800326         2529         10.0199674         10.1406401         1206         9.8593           42         9.8394041         1322         10.1606837         9.9802856         2529         10.0199674         10.1407607         1207         9.8592           44         9.8396684         1930         10.1606316         9.9807914         2529         10.0194615         10.141022         1208         9.8889           45         9.8399323         1319         10.1606677         9.9812972         2529         10.0194615         10.141022         1208         9.8887           47         9.840642         1317         10.159639         9.9815501         2529         10.0187028         10.1416364         1210         9.8883           49         9.8404593         1317         10.1596749         9.9825059         2529         10.017691	-	3.0030310	1201 1202	10.1397978 10.1399179 10.1400381	10.0219910 10.0217380 10.0214851	2530 2530 2529	9.9777560 9.9780090 9.9782620 9.9785149	10.1619217 10.1617888 10.1616559 10.1615231	1329 1329 1328	9.8380783 9.8382112 9.8383441 9.8384769	31 32 33 34 35												
38         9.83836747         1325         10.1611263         9.9792738         2590         10.0207232         10.1405196         1205         9.859404           40         9.8391396         1323         10.1606604         9.9797797         2529         10.0202203         10.1405196         1205         9.85934           41         9.8394041         1322         10.1607281         9.9803365         2530         10.0199674         10.1406801         1207         9.8592           43         9.8395363         1321         10.1604637         9.9805385         2529         10.0194615         10.141022         1208         9.8583           44         9.8396304         1350         10.160316         9.9807914         2529         10.0194615         10.141022         1208         9.8583           45         9.8399323         1319         10.1606376         9.9807914         2529         10.0187028         10.141239         1209         9.8887           46         9.8399323         1319         10.1606677         9.9815972         2529         10.0187028         10.141239         1209         9.8887           47         9.8400459         1317         10.1596749         9.9825616         2529         10.018449			1201 1202 1203	10.1397978 10.1399179 10.1400381	10.0219910 10.0217380 10.0214851	2530 2530 2529 2530	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679	10.1619217 10.1617888 10.1616559 10.1615231	1329 1329 1328 1327	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096	31 32 33 34 35 36												
39         9.839072         1324         10.1609928         9.979797         2529         10.020293         10.1406401         1205         9.83944           41         9.8392719         1322         10.1607281         9.980326         2529         10.0199674         10.1406401         1206         9.839434           42         9.8395363         1322         10.1606959         9.9802856         2529         10.0199674         10.1406401         1207         9.8591           43         9.8396383         1321         10.1606376         9.9807885         2529         10.0194615         10.1410022         1208         9.8891           45         9.8396304         1319         10.1601996         9.9810438         2529         10.0189557         10.1412439         1210         9.8884           46         9.8399323         1319         10.160677         9.9812972         2529         10.0187028         10.1414349         1210         9.8866           47         9.8400462         1317         10.1596724         9.9812501         2529         10.018499         10.1416071         1211         9.8867           49         9.8404593         1317         10.1596724         9.9825616         2529         10.0184991<	9 22	9.8597213	1201 1202 1203 1203	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791	2530 2530 2529 2530 2530	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578	1329 1329 1328 1327 1326	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422	31 32 33 34 35 36 37												
41         9.8392719         1322         10.1607281         9.9800385         2530         10.0199674         10.1407607         1207         9.8592.           42         9.8394041         1322         10.1605959         9.9802866         2529         10.0199674         10.1408814         1207         9.8592.           43         9.8395683         1321         10.160316         9.9807914         2529         10.0199606         10.1411220         1208         9.85891           45         9.8399323         1319         10.1601996         9.9810443         2529         10.0189557         10.1412439         1210         9.8867           46         9.8400642         1317         10.1598041         9.9818972         2529         10.0187028         10.1416491         1210         9.8865           48         9.8401959         1317         10.1596724         9.9825616         2529         10.0179441         10.1410201         1211         9.88681           50         9.8404593         1315         10.1594092         9.9825616         2529         10.0179441         10.1410201         1211         9.88681           51         9.8407896         1315         10.1594092         9.9825616         2529         10.0		9.8596009	1201 1202 1203 1203 1204	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262	2530 2530 2529 2530 2530 2529	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1611253	1329 1329 1328 1327 1326 1325	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8388747	31 32 33 34 35 36 37 38												
42         9.8394041         1322         10.1605959         9.8902856         2529         10.0197144         10.1408814         1208         9.8591           43         9.839563         1321         10.1604637         9.980585         2529         10.0194615         10.141022         1208         9.8589           44         9.8396004         1390         10.1600677         9.981043         2529         10.018957         10.1412439         1209         9.8888           46         9.8399323         1319         10.1509677         9.9812972         2529         10.0187028         10.1413649         1210         9.8586           48         9.8401959         1317         10.1596724         9.9812031         2529         10.0184199         10.1410439         1210         9.8587           49         9.8404593         1317         10.1596724         9.9823087         2529         10.0176913         10.14106071         1211         9.8582           50         9.8404593         1315         10.1594092         9.9825067         2529         10.0176913         10.1418495         1213         9.8580           51         9.8407392         1315         10.1594092         9.9825016         2529         10.0176913 </th <th>14 21</th> <th>9.8596009 9.8594804</th> <th>1201 1202 1203 1203 1204 1204</th> <th>10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196</th> <th>10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262 10.0204732</th> <th>2530 2530 2529 2530 2530 2529 2530 2529</th> <th>9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268</th> <th>10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1611253 10.1609928</th> <th>1329 1329 1328 1327 1326 1325 1325</th> <th>9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8388747 9.8390072</th> <th>31 32 33 34 35 36 37 38 39</th>	14 21	9.8596009 9.8594804	1201 1202 1203 1203 1204 1204	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262 10.0204732	2530 2530 2529 2530 2530 2529 2530 2529	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1611253 10.1609928	1329 1329 1328 1327 1326 1325 1325	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8388747 9.8390072	31 32 33 34 35 36 37 38 39												
1322   10.1604637   9.9805385   2529   10.0194615   10.1410022   1208   9.8889   44   9.8396684   1320   10.160196   9.9807914   2529   10.0192086   10.1411230   1209   9.8887   45   9.8399323   1319   10.1601967   9.9812972   2529   10.0187028   10.1412439   1210   9.8887   47   9.8400642   1319   10.159358   9.9815501   2529   10.0187028   10.1413649   1210   9.88861   48   9.8401959   1317   10.1596074   9.9823087   9.9818070   10.01841499   10.1414859   1212   9.8585   1317   10.159674   9.9823087   9.9825616   2529   10.0174384   10.1417282   1213   9.8583   1315   10.1596407   9.9823087   9.9825616   2529   10.0174384   10.1417282   1213   9.8583   1316   10.1596407   9.9823087   9.9825616   2529   10.0174384   10.1419088   1214   9.85807   10.0174384   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   9.85807   10.01748784   10.1419088   1214   10.1419088	14 21 19 20	9.8596009 9.8594804 9.8593599	1201 1202 1203 1203 1204 1205 1205 1206	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1406401	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262 10.0204732 10.0202203	2530 2530 2529 2530 2530 2529 2530 2529 2529	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268 9.9797797	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1611253 10.1609928 10.1608604	1329 1329 1328 1327 1326 1325 1325 1324 1323	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8388747 9.8390072 9.8391396	31 32 33 34 35 36 37 38 39 40												
44         9.8396684         1321         10.1603316         9.9807914         2529         10.0192086         10.1411230         1209         9.8588           45         9.8399323         1319         10.1609677         9.9812972         2529         10.0187028         10.1412439         1210         9.8887           47         9.8400642         1317         10.159358         9.9815972         2529         10.0187028         10.1413649         1210         9.8886           48         9.8401959         1317         10.1596724         9.9820559         2529         10.0181970         10.1416691         1212         9.8585           50         9.8404593         1315         10.1596407         9.9823067         2529         10.0174384         10.1417282         1213         9.8585           51         9.8407998         1315         10.1596792         9.9825616         2529         10.0174384         10.1417282         1213         9.8580           51         9.8407998         1315         10.1596792         9.9825616         2529         10.0174384         10.1419708         1213         9.8580           51         9.8407998         1315         10.1596792         9.9825616         2529         10.017438	9 20 3 19	9.8596009 9.8594804 9.8593599 9.8592393	1201 1202 1203 1203 1204 1205 1205 1206 1207	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1407607	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0204732 10.0204732 10.0202203 10.0199674	2530 2530 2529 2530 2530 2529 2529 2529 2530	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268 9.9797797 9.9800326	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1609928 10.1608604 10.1607281	1329 1329 1328 1327 1326 1325 1325 1324 1323 1322	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8389747 9.8390072 9.8391396 9.8392719	31 32 33 34 35 36 37 38 39 40												
45         9.8398004         1309         10.1603196         9.9810443         2529         10.0192086         10.1412439         1210         9.8586           46         9.8399323         1319         10.1600677         9.9812972         2529         10.0187028         10.1412439         1210         9.8586           47         9.8401949         1317         10.1598041         9.9818030         2529         10.0184499         10.1416071         1210         9.8585           49         9.8404593         1315         10.1596724         9.9320559         2529         10.0174341         10.1417282         1213         9.8582           50         9.8404593         1315         10.1594092         9.9825616         2529         10.0174384         10.1418495         1213         9.8580           51         9.8407398         1315         10.1598072         9.9825616         2529         10.0174384         10.1419089         1213         9.8580           51         9.8407398         1315         10.1598072         9.9825616         2529         10.0174384         10.1419098         1213         9.8580	9 20 3 19 6 18	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186	1201 1202 1203 1203 1204 1205 1205 1206 1207	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1406401 10.1407607 10.1408814	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0204732 10.0202203 10.0199674 10.0197144	2530 2530 2529 2530 2530 2529 2529 2529 2530 2529	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268 9.9797797 9.9800326 9.9802856	10.1619217 10.1617888 10.1616559 10.1615231 10.1613904 10.1612578 10.1611253 10.1609928 10.1608604 10.1607281 10.1605959	1329 1329 1328 1327 1326 1325 1325 1324 1323 1322	9.8390783 9.8382112 9.8383441 9.8386096 9.8387422 9.8388747 9.839072 9.8391396 9.8392719 9.8394041	31 32 33 34 35 36 37 38 39 40 41 42												
46   9.899323   1319   10.1600677   9.9812972   2529   10.0187028   10.1413649   1210   9.85865   47   9.8400642   1317   10.1599358   9.9815501   2529   10.0184499   10.14148459   1210   9.85855   10.0184499   10.1416071   1210   9.85855   10.0184499   10.0184499   10.1416071   1210   9.85855   10.0184499   10.0184499   10.1416071   1210   9.85855   10.0184499   10.0184499   10.1416071   1210   9.85855   10.0184499	21 29 20 23 19 36 18 78	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186 9.8589978	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1406401 10.1407607 10.1408814 10.1410022	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262 10.0204732 10.0204732 10.0199674 10.0197144 10.0194615	2530 2530 2529 2530 2530 2529 2530 2529 2529 2529 2529 2529	9.9777560 9.9788090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9797797 9.9800326 9.9802856	10.1619217 10.1617888 10.1616559 10.1616231 10.1613904 10.1612578 10.1611253 10.1609528 10.1609508 10.1605959 10.1604637	1329 1328 1327 1326 1325 1325 1324 1323 1322 1322	9.8390783 9.8383141 9.8384469 9.8386096 9.8387422 9.8380747 9.8390772 9.8392719 9.8394041 9.8395363	31 32 33 34 35 36 36 37 38 39 40 41 42 43												
48   9.8400642   1317   10.1599358   9.9815501   2529   10.0184499   10.1414859   1212   9.85851   1212   9.85851   1213   1214   121	21 29 20 25 19 26 18 78 17 78 17 70 16	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186 9.8589978 9.8588770	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1209	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405496 10.1406401 10.1407607 10.1408814 10.1410022 10.1411230	10.0219910 10.0217380 10.0214851 10.0213321 10.0209791 10.0207262 10.0202203 10.0199674 10.0194615 10.0192086	2530 2530 2529 2530 2530 2530 2529 2529 2529 2529 2529 2529	9.9777560 9.9780690 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9797797 9.9800326 9.9802856 9.9807914	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1612578 10.1611253 10.160928 10.1607281 10.1607595 10.1604637 10.1604637	1329 1328 1327 1326 1325 1325 1324 1323 1322 1322 1322 1321 1320	9.8390783 9.8383141 9.8383441 9.8384769 9.8386096 9.838747 9.8390072 9.8391396 9.8392719 9.8394041 9.8395663	31 32 33 34 35 36 37 38 39 40 41 42 43 44												
48     9.8401959     1317     10.1596041     9.9818030     2529     10.0181970     10.1416071     1211     9.85833       49     9.9403276     1317     10.1596724     9.9920559     2528     10.0179441     10.1417282     1213     9.8582       50     9.8404593     1315     10.1595407     9.9823087     2529     10.0176913     10.1418495     1213     9.8581       51     9.9403296     1315     10.1594092     9.9825616     2529     10.0174384     10.1419708     1214     9.8580       52     9.8403296     1315     10.1594092     9.9825616     2529     10.0174384     10.1419708     1214     9.8580       53     9.8403296     1315     10.1594092     9.98216     2529     10.0173385     10.140908     1214     9.8580	04 21 09 20 03 19 06 18 78 17 70 16 51 15	9.8596009 9.8594804 9.8593599 9.8592395 9.8591186 9.8589978 9.8588770 9.8587561	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1209 1210	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1407607 10.1408814 10.1411030 10.1411230 10.1412439	10.0219910 10.0217380 10.0214851 10.0212321 10.0209791 10.0204732 10.0202303 10.0199674 10.0199674 10.0199674 10.0199676 10.0199676	2530 2530 2529 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.9788090 9.9788620 9.9785149 9.9787679 9.9792738 9.9792738 9.9795268 9.9797797 9.9800326 9.9805385 9.9805385 9.9807914 9.9810443	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1612578 10.1612578 10.1609928 10.160804 10.1607281 10.1605959 10.1608316 10.160316	1329 1329 1328 1327 1326 1325 1325 1324 1323 1322 1322 1322 1321 1320 1319	9.8390783 9.8383112 9.8383441 9.8384699 9.8386096 9.8387492 9.8390072 9.8391396 9.8392719 9.8394041 9.8395363 9.8395684 9.8398004	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45												
49         9.3403276         1317         10.1596724         9.9320559         2528         10.0179441         10.1417282         1213         9.8582           50         9.8404593         1315         10.1595407         9.9823087         2529         10.0179441         10.1417282         1213         9.8581           51         9.8405908         1315         10.1594092         9.9825616         2529         10.0174384         10.1419708         1213         9.8580           52         9.8407098         1315         10.1592777         9.98216         2529         10.0174384         10.1419708         1214         9.8580	04 21 99 20 93 19 96 18 78 17 70 16 51 15	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186 9.858978 9.8588770 9.8587561 9.8586351	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1209 1210	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1405196 10.1406401 10.1407607 10.1408814 10.141022 10.1411230 10.1412439 10.1412439	10.0219110 10.0217380 10.0214851 10.0212321 10.0202791 10.0204732 10.0204233 10.0194615 10.0194615 10.0189557 10.0189557	2530 2530 2530 2530 2530 2539 2539 2539 2539 2529 2529 2529 2529	9.9777560 9.9782620 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9800326 9.9800326 9.9802856 9.9801914 9.9810443 9.98110443	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1612578 10.1609928 10.1609928 10.1606992 10.1604637 10.1604316 10.1601996 10.1601996	1329 1329 1328 1327 1326 1325 1325 1324 1323 1322 1322 1321 1320 1319 1319	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387427 9.8391396 9.8392719 9.8394041 9.8395363 9.8396684 9.8398004 9.8398004	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45												
50 9.8404593 1315 10.1595407 9.9823087 2529 10.0176913 10.1418495 1213 9.85815 19.8405908 1315 10.1594092 9.9825616 2529 10.0174384 10.1419708 1214 9.85807 10.0174384 10.1419708 1214 9.85807 10.0174585 10.1419708 1214 9.85807 10.017458 10.1419708 1214 9.85807 1	04 21 99 20 93 19 96 18 78 17 70 16 51 15 51 14	9.8596009 9.8594804 9.8593599 9.8592395 9.8591186 9.8589978 9.8588770 9.8587561	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1209 1210 1210 1210	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1406401 10.1407607 10.1408814 10.1410022 10.1412439 10.1412439 10.1413649 10.1413649	10.0219910 10.0217380 10.0214851 10.02027961 10.0207262 10.0204732 10.0204203 10.0199674 10.0199674 10.0194615 10.0189557 10.0187028 10.0187028	2530 2530 2530 2530 2530 2529 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268 9.9797797 9.9800326 9.9805385 9.9807914 9.9810443 9.9812972 9.9815501	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1612578 10.1611253 10.1609928 10.16067281 10.1606559 10.1604637 10.160437 10.16069196 10.1600677 10.1600677	1329 1329 1328 1327 1326 1325 1325 1325 1322 1322 1322 1322 1321 1320 1319 1319 1317	9.8380783 9.8383112 9.8383441 9.8384769 9.8386096 9.8387422 9.8391396 9.8392719 9.8392719 9.8394041 9.8395683 9.839684 9.8399323 9.8400642	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47												
51 9.8405908 1315 10.1594092 9.9825616 2529 10.0174384 10.1419708 1214 9.8580	04 21 09 20 00 19 06 18 78 17 70 16 51 15 51 14 11 13 29 12	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186 9.858978 9.8588770 9.8586351 9.8585141 9.8583929	1201 1202 1203 1203 1204 1205 1206 1207 1208 1208 1209 1210 1210 1212 1211	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1406401 10.1407607 10.1408814 10.1410022 10.1411230 10.141239 10.1412439 10.1418649 10.1416071	10.0219910 10.0217380 10.0214851 10.0207262 10.0207262 10.0204732 10.0204203 10.0199674 10.0197144 10.0197144 10.0194615 10.0189557 10.018702 10.018702 10.0181970	2530 2530 2530 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.9780090 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9797797 9.9800326 9.9805385 9.9807914 9.9810443 9.9810443 9.9812972 9.9815501 9.9818030	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1612578 10.1601928 10.1608604 10.1607281 10.1604537 10.1604537 10.16045316 10.1601996 10.1509358 10.1599358 10.1598041	1329 1329 1328 1327 1326 1325 1325 1325 1325 1322 1322 1322 1321 1320 1319 1319 1317	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8380742 9.8391996 9.8392719 9.83934041 9.8395363 9.8396684 9.8398004 9.8401959	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48												
#a   G 6407004    JUL   10 1509777   G 0000145   <sup>4043</sup>   10 0171055   10 1490099   <sup>1419</sup>   G 0570	04 21 09 20 03 19 06 18 78 17 70 16 51 15 51 14 11 13 29 12 18 11	9.8596009 9.8594804 9.8593599 9.8592393 9.8591186 9.8589770 9.8587561 9.8587561 9.8583141 9.8583929 9.8583718	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1209 1210 1212 1211 1213	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1405196 10.1405196 10.1407607 10.1408814 10.1411022 10.1412439 10.1412439 10.1412439 10.1412439 10.1412439 10.1412439 10.1412439 10.1412439 10.1412439	10.0219910 10.0217380 10.0214851 10.0212321 10.0207762 10.0207762 10.0204732 10.0202303 10.0199674 10.0197144 10.0194086 10.0189557 10.0181920 10.0181970 10.0179441	2530 2530 2530 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.9782620 9.9782620 9.9785149 9.9787679 9.9790209 9.9792738 9.9795268 9.9802856 9.9802856 9.9805385 9.9807914 9.98112972 9.9811501 9.98118030 9.9815503	10.1619217 10.1617883 10.1616559 10.1616529 10.1613904 10.1612573 10.1612573 10.1609928 10.1606904 10.1607281 10.1605316 10.1600677 10.1599358 10.1599358 10.1599364 10.1596724	1329 1329 1327 1326 1327 1325 1325 1325 1322 1322 1322 1321 1320 1319 1317 1317	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8389747 9.8391396 9.8395719 9.8394041 9.8396684 9.8396684 9.8396894 9.8400642 9.8401959 9.8403276	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49												
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53   9.8408537   1915   10.1591463   9.9830673   3500   10.0169327   10.1422137   1915   9.85778	14 21 199 20 199 20 196 18 178 17 170 16 151 15 11 13 129 12 18 11 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 1	9.8596009 9.8594804 9.8593599 9.8592393 9.8591136 9.8589778 9.8587561 9.8585141 9.8583929 9.8582718 9.8582718 9.8582718 9.8581505	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1210 1210 1211 1211 1213 1213	10.1397978 10.1399179 10.1400381 10.1401584 10.1403991 10.1405196 10.1406401 10.1407607 10.1408814 10.1411230 10.1412439 10.1412439 10.1416071 10.1418649 10.1417282 10.1417282	10.0219110 10.0217380 10.0214851 10.0212321 10.0207791 10.0204732 10.0204233 10.0194615 10.0194615 10.0194615 10.0189557 10.0181970 10.0181970 10.0179441 10.0176913	2530 2530 2530 2530 2539 2539 2539 2539 2529 2529 2529 2529	9.9777560 9.9782620 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9800326 9.9800326 9.9802856 9.98010443 9.9810443 9.9812972 9.9815501 9.9818030 9.9820559	10.1619217 10.1617888 10.1616559 10.1616529 10.1615291 10.1613904 10.1611253 10.1609928 10.1606928 10.1606728 10.1606316 10.1601996 10.1600677 10.1599358 10.1598041 10.1596724 10.1596724	1329 1329 1328 1327 1326 1325 1325 1322 1321 1322 1321 1320 1319 1317 1317 1317 1317	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387427 9.8391396 9.8392719 9.8394041 9.8395363 9.839684 9.8398004 9.8399323 9.8401959 9.3403276 9.8403276	31 32 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49 50 51 52 52 52 53 54 54 54 54 54 54 54 54 54 54 54 54 54												
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	14 21 21 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.8596009 9.8594804 9.8593599 9.8592393 9.8589978 9.8589776 9.85867561 9.858635141 9.8585141 9.8583929 9.8581505 9.8580292 9.8590292	1201 1202 1203 1203 1204 1205 1205 1206 1207 1208 1208 1210 1211 1213 1213 1213 1214 1215 1215	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1406401 10.1407607 10.1408814 10.1411230 10.1412439 10.1412439 10.1416071 10.1417282 10.1419708 10.1419708 10.1420922 10.1422137	10.0219110 10.0217380 10.0214851 10.0212321 10.0209791 10.0204732 10.0204233 10.0204233 10.0194615 10.0194615 10.0189557 10.0181970 10.0174441 10.0176913 10.0174384 10.0171855	2530 2530 2530 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.9782620 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9800326 9.9802856  9.9807914 9.9818030 9.9815501 9.9818030 9.982559 9.982559 9.9823087 9.9823087	10.1619217 10.1617888 10.1616559 10.1616529 10.1613904 10.1611253 10.1609928 10.1606928 10.1606728 10.1606316 10.16096 10.1600677 10.1599358 10.1598041 10.1596724 10.1594092 10.1594092 10.1594092 10.1592777 10.1594163	1329 1329 1326 1327 1326 1325 1324 1323 1322 1322 1321 1320 1319 1317 1317 1317 1315 1315 1315 1314 1313	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387427 9.8391396 9.8392719 9.8394041 9.8395363 9.839604 9.8399323 9.8400642 9.8401959 9.840593 9.840593 9.840593 9.840593 9.840593 9.840593 9.840593	31 32 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49 50 51 52 52 52 53 54 54 54 54 54 54 54 54 54 54 54 54 54												
56 9.8412474 1312 10.1587526 9.9838259 259 10.0161741 10.1425785 1217 9.85745	14 21 21 29 20 20 20 20 20 20 20 20 20 20 20 20 20	9.8596009 9.8594804 9.8593599 9.8592393 9.8592136 9.8589778 9.85867561 9.8586351 9.8585141 9.8583929 9.8580292 9.8577863 9.8577863	1201 1202 1203 1204 1205 1206 1206 1207 1208 1208 1209 1210 1210 1211 1213 1213 1214 1215 1215	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1406401 10.1407607 10.1408814 10.1411230 10.1412439 10.1412439 10.1419708 10.1419708 10.1420922 10.1423352	10.0219110 10.0217380 10.0214851 10.0202791 10.0202792 10.0204732 10.0204233 10.0194615 10.0194615 10.0194615 10.0184499 10.0181970 10.0174384 10.0174384 10.0174384 10.0171855 10.0166798	2530 2530 2530 2530 2530 2529 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9802856 9.9802856 9.9805385 9.9807914 9.9818030 9.9815501 9.9818030 9.9825616 9.9825616 9.98385925619 9.98385925619 9.983850673 9.9833202	10.1619217 10.1617888 10.1616559 10.1616559 10.1612578 10.1612578 10.1609928 10.1606928 10.1606928 10.160693 10.1606316 10.16096 10.1600677 10.1593588 10.1598041 10.1595407 10.1594092 10.1594094 10.1594094 10.1594094 10.1594094 10.1594095	1329 1329 1326 1327 1326 1325 1324 1323 1322 1321 1320 1319 1319 1317 1317 1317 1315 1314 1315 1315	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8389747 9.8391396 9.8395719 9.8395363 9.8396804 9.8399323 9.8400642 9.8401959 9.8404593 9.8404593 9.8404593 9.8404593 9.8404593 9.8404593 9.8408537 9.8408537	31 32 33 34 35 36 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 54 55 56 56 56 56 56 56 56 56 56 56 56 56												
57   9.8413785   1310   10.1586215   9.9840787   2020   10.0159213   10.1427002   1217   9.8572	04 21 99 20 96 18 96 18 178 17 10 16 51 15 11 13 12 12 11 10 10 16 11 13 12 12 11 13 11 13 11 13 11 13 11 14 11 13 11 14 11 13 11 14 11 13 11 14 11 15 11 15 1	9.8596009 9.8594804 9.8593599 9.8592393 9.859978 9.8589798 9.8588770 9.8585141 9.8583929 9.8580292 9.8590292 9.8577863	1201 1202 1203 1203 1204 1205 1206 1207 1208 1208 1209 1210 1211 1211 1213 1213 1214 1215 1216 1217	10.1397978 10.1399179 10.1400381 10.140381 10.1405196 10.1406401 10.1406401 10.1407607 10.1408814 10.1410022 10.1411230 10.1412439 10.1412439 10.1417282 10.1419708 10.1419708 10.1423372 10.1423352 10.1424568	10.0219910 10.0217380 10.0214851 10.02027961 10.02027262 10.02024732 10.0202203 10.0199674 10.019961 10.0194615 10.0194615 10.0193086 10.0183557 10.0184499 10.0184499 10.0174449	2530 2530 2530 2530 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.979209 9.9795268 9.9795268 9.980385 9.9805385 9.9805385 9.9807914 9.9812972 9.9818030 9.9823087 9.9823087 9.9823087 9.9823087 9.9823087 9.9823087 9.9833673	10.1619217 10.1617888 10.1616559 10.1616529 10.1616231 10.1612578 10.1612578 10.1609928 10.1609928 10.1609599 10.1604637 10.1603516 10.1601996 10.1600677 10.1599358 10.1598401 10.1595407 10.15934092 10.1591463 10.1591463	1329 1329 1328 1327 1326 1325 1325 1322 1322 1322 1321 1320 1319 1317 1317 1317 1315 1314 1313 1314 1313	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8389747 9.8391396 9.8393271 9.839323 9.839323 9.8404593 9.8404593 9.8404593 9.8404590	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 51 55 54 55 54 55 54 55 54 54 54 54 54 54												
08   9.8410090  <sub>1900</sub>   10.1084900  9.9845310  <sub>0500</sub>   10.0150685  10.1428221  <sub>1010</sub>   9.8571	14 21 20 20 20 20 20 20 20 20 20 20 20 20 20	9.8596009 9.8594804 9.8593509 9.8592303 9.8592303 9.858978 9.85857501 9.8585141 9.8583929 9.85831505 9.8581505 9.8581505 9.8579078 9.8577863 9.8579078 9.8579648 9.8575432	1201 1203 1203 1204 1205 1206 1207 1208 1208 1209 1210 1211 1213 1213 1213 1215 1215 1216 1217	10.1397978 10.1399179 10.1400381 10.1401584 10.1403911 10.1405196 10.1406401 10.1407607 10.1408814 10.141022 10.1411230 10.1412439 10.1416071 10.1417282 10.141895 10.141895 10.141895 10.1423352 10.1424568 10.1425785 10.1425785	10.0219910 10.0217380 10.0214851 10.0203791 10.0203791 10.02027203 10.0202203 10.0199674 10.0197144 10.0194615 10.0189557 10.0184499 10.0184499 10.0174384 10.0176913 10.0176913 10.0174384 10.0174384 10.0174384 10.0176913 10.0166798 10.0166798 10.01664270 10.0161741	2530 2550 2550 2550 2550 2529 2529 2529 252	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9802856 9.9802856 9.9805385 9.9807914 9.9815071 9.9815501 9.9815501 9.9815501 9.9825666 9.9825666 9.9835259 9.9833202 9.9833202 9.9835320	10.1619217 10.1617888 10.1616559 10.1616559 10.1613904 10.1612573 10.1612573 10.1609928 10.1606994 10.1607281 10.1605959 10.1606316 10.160996 10.1599358 10.1599358 10.1599407 10.159407 10.159407 10.159407 10.159407 10.159407 10.1598163 10.158838	1329 1328 1327 1326 1325 1325 1322 1322 1322 1321 1321 1317 1317 1317	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8389747 9.8391396 9.8393219 9.8395683 9.8396844 9.8399323 9.8400642 9.8401959 9.8404593 9.8404593 9.8407225 9.8408537 9.8408537 9.8411162 9.8411162	31 32 33 34 35 36 37 38 39 40 42 43 44 44 45 60 51 52 53 55 55 57												
09   9.8410404  <sub>1900</sub>   10.1383396  9.9843844  <sub>0500</sub>   10.0134136  10.1429439  <sub>1000</sub>   9.89700	14 21 20 20 20 20 20 20 20 20 20 20 20 20 20	9.8596009 9.8594804 9.859359 9.8592393 9.8592393 9.8589778 9.8588770 9.858635141 9.8583929 9.8581505 9.8581505 9.8579078 9.8577863 9.8577863 9.85778648	1201 1203 1203 1204 1205 1206 1206 1207 1208 1209 1210 1211 1213 1214 1215 1215 1217 1217	10.1397978 10.1399179 10.1400381 10.1401584 10.1402787 10.1403991 10.1405196 10.1406401 10.1407607 10.1408814 10.141230 10.141230 10.1412439 10.1412859 10.1417282 10.1422137 10.1422352 10.1422585 10.1424568 10.1427002 10.1427002 10.1427002	10.0219910 10.0217380 10.0214851 10.0207262 10.0207262 10.0204732 10.0202203 10.0199674 10.0194615 10.0194615 10.0194615 10.0194615 10.0194615 10.0194615 10.0174449 10.0181970 10.0179441 10.0176913 10.0176913 10.0176913 10.0176913 10.0166798 10.0166798 10.0166798 10.0166798 10.0166798	2530 2539 2539 2530 2530 2532 2532 2532 2532 2523 2529 2529 2522 2522	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9797979 9.9800326 9.9805385 9.9801397 9.9810443 9.9815501 9.9812972 9.9818030 9.9823087 9.9823087 9.98336730 9.9838259 9.9840787 9.9838259 9.9843787	10.1619217 10.1617888 10.1616559 10.1616529 10.1616291 10.1612578 10.1612578 10.1609928 10.1609928 10.1609599 10.1600677 10.1603516 10.1601996 10.1600677 10.159358 10.1595407 10.1595407 10.1593408 10.1591463 10.1591463 10.1589150 10.1589150 10.1589150 10.1586215 10.1586215 10.1586215 10.1586215 10.1586215 10.1586215	1329 1329 1327 1326 1326 1325 1324 1322 1322 1321 1329 1319 1319 1317 1317 1316 1318 1318 1318 1311 1312 1312 1311	9.8380783 9.8382112 9.8383441 9.8384769 9.8386096 9.8387422 9.8388747 9.8399072 9.83994041 9.8395963 9.8399684 9.8399004 9.83993684 9.8399004 9.8404593 9.8404593 9.8406507 9.8408577 9.840857 9.8411762 9.8413785 9.8411762 9.8411769	31 32 33 34 35 36 37 38 39 41 42 43 44 46 47 48 49 51 55 56 57 58 58 58 59 59 59 59 59 59 59 59 59 59 59 59 59												
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	144 21 199 20 106 18 176 16 177 177 177 177 177 177 177 177 177 177	9.8596009 9.8594804 9.8593599 9.8592393 9.8589978 9.8588770 9.8587561 9.85886351 9.85881505 9.85881505 9.8581505 9.8579078 9.8577863 9.8576648 9.8572998 9.85712998 9.8571299 9.8570561 9.8570561 9.8570561	1901 1202 1203 1203 1204 1205 1206 1206 1207 1210 1210 1212 1211 1213 1214 1215 1215 1216 1217 1219 1219 1219 1219 1219 1211 1211	10.1397978 10.1399179 10.1400381 10.1401584 10.140391 10.1403991 10.1405196 10.1406401 10.1406401 10.1406401 10.1411230 10.1411230 10.1412439 10.1418708 10.1419708 10.1425785 10.1425785 10.1425785 10.1425785 10.1425785 10.1425939 10.1429439 10.1430659	10.0219110 10.0217380 10.0214851 10.0212321 10.0209791 10.0207262 10.0202203 10.0199674 10.0197144 10.0194615 10.0189557 10.0187028 10.0184499 10.0181970 10.0176913 10.0176913 10.0176913 10.0176913 10.0166270 10.0166270 10.01661741 10.0159213 10.0156184	2530 2530 2530 2530 2530 2530 2530 2530	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9797797 9.9800326 9.9805385 9.9807914 9.9815972 9.981501 9.981500 9.9823067 9.9823067 9.9833673 9.9833730 9.98338259 9.9843787 9.9845844 9.9848372	10.1619217 10.1617888 10.1616559 10.1616559 10.1612578 10.1612578 10.1609928 10.1609928 10.1606959 10.1606537 10.1605376 10.1600677 10.1599358 10.1599358 10.1599407 10.159407 10.159407 10.159407 10.159407 10.158041 10.158041 10.1580150 10.1588288	1329 1328 1327 1326 1326 1325 1326 1326 1322 1321 1322 1321 1319 1317 1317 1317 1317 1316 1318 1318 1319 1319 1319 1319 1310 1310 1311 1310 1310	9.8380783 9.8382112 9.8383441 9.8384769 9.8386969 9.8387422 9.8389747 9.8391396 9.83952719 9.8394041 9.8395683 9.8400642 9.8401959 9.8404593 9.8404593 9.8404593 9.8407225 9.8408537 9.8411162 9.8415095 9.8415095 9.8415095 9.8411694 9.8417713	31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 55 55 56 57 58 59 60 60 60 60 60 60 60 60 60 60 60 60 60												
133°	04 21 209 20 199 20 180 18 170 16 11 170 16 11 15 11 11 15 12 12 18 11 10 10 29 12 18 6 18 6 19 6 10 6 10 79 16 10 79 179 179 179 179 179 179 179 179 179	9.8596009 9.8594804 9.859359 9.859259 9.858978 9.8588770 9.8586351 9.85885141 9.8583929 9.8581505 9.8581505 9.85796648 9.8572998 9.8574215 9.8572998 9.8571299 9.8570561 9.8569341 Sine.	1201 1203 1203 1204 1205 1206 1207 1208 1209 1210 1211 1211 1213 1214 1215 1215 1217 1217 1217 1218	10.1397978 10.1399179 10.1400381 10.1400381 10.1403991 10.1403991 10.1405196 10.1406401 10.1407607 10.1406814 10.1411230 10.1411230 10.14112439 10.1413649 10.1418708 10.1419708 10.142922 10.1425785 10.1425785 10.1425785 10.1425785 10.14259439	10.0219110 10.0217380 10.0214351 10.0212321 10.0209791 10.0202203 10.0202203 10.0199674 10.0197144 10.0194615 10.0189557 10.0187028 10.0184499 10.0181970 10.0176913 10.0176913 10.0176913 10.0176913 10.0166270 10.0166270 10.01661741 10.0159213 10.0159213 10.0159215	2530 2530 2530 2530 2530 2529 2529 2529 2529 2529 2529 2529 252	9.9777560 9.978090 9.9782620 9.9785149 9.9787679 9.9790209 9.9795268 9.9795268 9.9805385 9.9805385 9.9805385 9.9815501 9.9815501 9.9815607 9.9825666 9.98330673 9.98330673 9.9833202 9.9835730 9.9835730 9.9835730 9.9843315	10.1619217 10.1617888 10.1616559 10.1616559 10.1613904 10.1612578 10.1612578 10.1609928 10.16069928 10.1606959 10.1606577 10.1608316 10.160996 10.1600677 10.1599358 10.1598041 10.159407 10.159407 10.159407 10.159408 10.1588838 10.1588838 10.1588859 10.1588491 10.1588491 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905 10.1584905	1329 1328 1327 1326 1325 1325 1325 1325 1322 1322 1321 1327 1317 1317 1316 1318 1312 1312 1312 1312 1312 1312 1312	9.8380783 9.8382112 9.8383441 9.8384769 9.8386966 9.8387422 9.8391396 9.83932719 9.8393041 9.8395633 9.8396684 9.8404593 9.8404593 9.8404593 9.8404593 9.8404593 9.8404593 9.8411162 9.8412771 9.8413785 9.8416994 9.8417713	31 32 33 35 36 37 38 40 41 42 43 44 44 45 47 48 49 50 51 55 56 57 58 59 60 70 70 70 70 70 70 70 70 70 70 70 70 70												

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<u>'</u> _	Bine.	Dif.	Co-secant.	Tangent.	Dif.	Co-tangent.	Secant.	Dic.	Co-sine.	<u> </u>
0	9.8417713	1308	10.1582287	9.9848372 9.9850900	2528	10.0151628   10.0149100	10.1430659 10.1431879	1220	9.8569341 9.8568121	60 59
1 2	9.8419021 9.8420328	1307	10.1580979 10.1579672	9.9853428	2528	10.0146572	10.1433100	1221	9.8566900	58
3	9.8421634	1306	10.1578366	9.9855956	2528	10.0144044	10.1434322	1222	9.8565678	57
4	9.8422939	1305 1305	10.1577061	9.9858484	2528 2528	10.0141516	10.1435545	1223 1223	9.8564455	56
5	9.8424244	1304	10.1575756	9.9861012	2528	10.0138988	10.1436768 10.1437992	1224	9.8563232 9.8562008	55 54
6	9.8425548	1303	10.1574452	9.9863540	2528	10.0136460		1224		
7	9.8426851	1303	10.1573149	9.9866068	2528	10.0133932	10.1439216	1226	9.8560784 9.8559558	53 52
8 9	9.8428154 9.8429456	1302	10.1571846 10.1570544	9.9868596 9.9871123	2527	10.0131404 10.0128877	10.1440442 10.1441668	1226	9.8558332	51
10	9.8430757	1301	10.1569243	9.9873651	2528	10.0126349	10.1442894	1226	9.8557106	50
ii	9.8432057	1300 1299	10.1567943	9.9876179	2528 2527	10.0123821	10.1444122	1228 1228	9.8555878	49
12	9.8433356	1299	10.1566644	9.9878706	2528	10.0121294	10.1445350	1220	9.8554650	48
13	9.8434655		10.1565345	9.9881234		10.0118766	10.1446579	1229	9.8553421	47
14	9.8435953	1298 1297	10.1564047	9.9883761	2527 2528	10.0116239	10.1447808	1231	9.8552192	46
15	9.8437250	1297	10.1562750	9.9886289	2527	10.0113711	10.1449039 10.1450270	1231	9.8550961 9.8549730	45 44
16 17	9.8438547 9.8439842	1295	10.1561453	9.9888816 9.9891344	2528	10.0111184 10.0108656	10.1450270	1231	9.8548499	43
18	9.8441137	1295	10.1560158 10.1558863	9.9893871	2527	10.0106129	10.1452734	1233	9.8547266	42
19		1295		9.9896399	2528	10.0103601	10.1453967	1233	9.8546033	41
20	9.8442432 9.8443725	1293	10.1557568 10.1556275	9.9898926	2527	10.0103001	10.1455201	1234	9.8544799	40
21	9.8445018	1293 1292	10.1554982	9.9901453	2527	10.0098547	10.1456436	1235	9.8543564	39
22	9.8446310	1292	10.1553690	9.9903981	2528 2527	10.0096019	10.1457671	1235 1236	9.8542329	38
23	9.8447601	1290	10.1552399	9.9906508	2527	10.0093492	10.1458907	1237	9.8541093 9.8539856	37 36
24	9.8448891	1290	10.1551109	9.9909035	2527	10.0090965	10.1460144	1237		
25	9.8450181	1289	10.1549819	9.9911562	2527	10.0088438	10.1461381	1238	9.8538619	35
26	9.8451470	1288	10.1548530	9.9914089	2527	10.0085911	10.1462619	1239	9.8537381 9.8536142	34 33
27 28	9.8452758 9.8454045	1287	10.1547242 10.1545955	9.9916616 9.9919143	2527	10.0083384	10.1463858 10.1465098	1240	9.8534902	32
29	9.8455332	1287	10.1544668	9.9921670	2527	10.0078330	10.1466338	1240 1241	9.8533662	
30	9.8456618	1286	10.1543382	9.9924197	2527	10.0075803	10.1467579		9.8532421	31 30
31	9.8457903	1285	10.1542097	9.9926724	2527	10.0073276	10.1468821	1242	9.8531179	29
32	9.8459188	1285 1283	10.1540812	9.9929251	2527 2527	10.0070749	10.1470064	1243 1243	9.8529936	28
33	9.8460471	1283	10.1539529	9.9931778	2527	10.0068222	10.1471307	1244	9.8528693	27
34 35	9.8461754	1282	10.1538246	9.9934305	2527	10.0065695 10.0063168	10.1472551 10.1473796	1245	9.8527449 9.8526204	26 25
36	9.8463036 9.8464318	1282	10.1536964 10.1535682	9.9936832 9.9939359	2527	10.0063168	10.1475041	1245	9.8524959	24
II I		1281			2527			1246	9.8523713	23
37 38	9.8465599 9.8466879	1280	10.1534401	9.9941886 9.9944413	2527	10.0058114 10.0055587	10.1476287 10.1477534	1247	9.8522466	22
39	9.8468158	1279	10.1533121 10.1531842	9.9946940	2527	10.0053060	10.1478782	1248 1248	9.8521218	21
40	9.8469436	1278 1278	10.1530564	9.9949466	2526 2527	10.0050534	10.1480030	1240	9.8519970	20
41	9.8470714	1277	10.1529286	9.9951993	2527	10.0048007	10.1481279	1250	9.8518721 9.8517471	19
42	9.8471991	1276	10.1528009	9.9954520	2527	10.0045480	10.1482529	1251		18
43	9.8473267	1276	10.1526733	9.9957047	2526	10.0042953	17.1483780	1251	9.8516220	177
44	9.8474543	1274	10.1525457	9.9959573	2527	10.0040427	10.1485031	1252	9.8514969 9.8513717	16 15
45 46	9.8475817 9.8477091	1274	10.1524183 10.1522909	9.9962100 9.9964627	2527	10.0037900 10.0035373	10.1486283 10.1487535	1252	9.8512465	14
47	9.8478365	1274 1272	10.1521635	9.9967154	2527 2526	10.0032846	10.1488789	1254 1254	9.8511211	13
48	9.8479637		10.1520363	9.9969680		10.0030320	10.1490043	1255	9.8509957	12
49	9.8480909	1272	10.1519091	9.9972207	2527	10.0027793	10.1491298	1256	9.8508702	11
50	9.8482180	1271 1270	10.1517820	9.9974734	2527 2526	10.0025266	10.1492554	1256	9.8507446	10
51	9.8483450	1270	10.1516550	9.9977260	2527	10.0022740	10.1493810	1257	9.8506190 9.8504933	·9
52 53	9.8484720 9.8485989	1269	10.1515280	9.9979787 9.9982314	2527	10.0020213 10.0017686	10.1495067 10.1496325	1258	9.8503675	7
54	9.8487257	1268	10.1514011 10.1512743	9.9984840	2526	10.0017660	10.1497583	1258	9.8502417	6
<b>—</b>	9.8488524	1267			2527			1260	9.8501157	5
55 56	9.8489791	1267	10.1511476 10.1510209	9.9987367 9.9989893	2526	10.0012633 10.0010107	10.1498843 10.1500103	1260	9.8499897	4
57	9.8491057	1266	10.1508943	9.9992420	2527	10.0007580	10.1501363	1260 1262	9.8498637	3 2
58	9.8492322	1265 1264	10.1507678	9.9994947	2527 2526	10.0005053	10.1502625	1262	9.8497375	2
59	9.8493586	1264	10.1506414	9.9997473	2527	10.0002527	10.1503887	1263	9.8496113 9.8494 <b>85</b> 0	1 0
60/	9.8494850 Co-sine.	Dif.	10.1505150 Secant.	10.0000000	Dif.	10.0000000 Tangent	10.1505150 Co-secant.	Dif.	9.0494630 Sine.	$ \ddot{\gamma} $
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1 0002909 1.0000000 0177432 9999847 (3034009 993300 0526254 9986143 0700467 1973437 2 0006818 9999983 0180341 9999837 (3054074) 998300 0332074 9983635 (700270 1973023	_											60
3 0008727 999996 0183249 999821 0357716 999360 0532074 9988335 0706270 9975028   4 0011657 9999989 0189066 9999213 0363539 9993349 0537883 9985024 0712073 9974615   6 0017454 9999970 1019483 999167 0366373 9993284 0547883 9985024 0712073 9974615   7 0020362 999996 019971 991974 999167 0365339 9993284 0547883 9985024 0712073 9974615   9 0026180 999996 0286026 999966 0286026 9997272 037865 9993284 0547867 9985805 07072777 973736   9 0036180 999996 0286026 9997272 037865 9993280 0547887 9985805 07072777 973736   11 0031998 9999940 0286516 9997272 037865 9993280 0549659 998580 07072777 973736   12 0034907 999993 0290484 9997807 0383878 999226 056851 9984408 0732382 997380   13 0078115 9999920 0212323 9997745 0386787 9992240 055651 19984570 0723481 997385   13 0078115 9999920 0212323 9997807 0383878 9992220 0568521 5984408 0732382 997380   15 004563 9999940 0212324 9997807 0383878 9992220 0568215 9984408 0732382 997380   16 0046542 999982 0212167 9997866 038569 9992240 0566022 9983917 0741805 9972717   17 0049451 9999785 0222365 9997849 0389269 9992240 0566022 9983917 0741805 9972715   18 004563 9999847 0222365 9997849 0389459 0992260 0568922 9983976 1741805 9972715   19 005563 9999847 0222365 9997849 0389451 9992260 056922 9983917 0741805 997215   19 005563 9999871 0222365 9997849 0389451 9992260 056923 9983715 0744887 997185   19 005563 9999871 0222365 999785 038269 9992240 0566032 9983716 0746887 997218   22 0056196 999973 0228569 999782 044101318 9991790 0581448 9983082 0755689 997118   22 0056395 9999736 0244342 999766 044864 9991827 075644 9983260 0775689 997118   22 0056395 9999736 0244364 999766 044864 9991870 0756889 997118   23 0065049 9999736 0244364 9998766 044864 9991870 0890876 0764899 997180   24 0056313 9999756 0244364 9998766 044864 9998876 066604 9998776 0764899 999718   25 007253 9999819 0228569 999786 044868 999888 066604 999878 999889   25 007650 9999819 0228569 999886 044868 999888 066604 9998878 076689 99988   25 007650 9999871 0288569 999876 044869 999888 066604 999888   25 007650 9999871 02	1	0002909	1.0000000	0177432	9998426	0351902	9993306	0526264	9986143	0700467	9975437	59 58
5 0014544 9999989 0189066 999813 0363539 999339 0537838 9985624 0712073 9974616 6 0017458 9999857 0194883 9998101 0369344 9993177 054363 9985629 0717876 9974199 9 0025169 9999958 02906099 999958 0363630 0732077 9973930 10 0039089 9999958 02906099 999958 0363630 0732077 9973930 11 00039089 9999958 0290601 9997827 0370605 9992280 0569502 994849 0723678 9973509 11 0003908 9999930 029942 9999767 0383678 0992740 056311 998470 072280 9973514 12 0003907 9999930 0229942 999777 0383678 9992740 056311 998470 072281 9973509 13 0007816 9999929 022332 9997747 0363678 9999217 05611 998470 073283 997314 14 0040724 9999917 0211844 9997863 038569 9992404 0564024 9984081 0738184 9972717 15 004563 9999862 0221047 9997866 039560 9992270 006289 9983917 0741085 997271 16 0045642 9999862 0221047 9997866 039560 9992270 006289 9983917 0741085 997271 17 0049451 9999873 022366 9999789 039259 9992200 0568218 9983761 0741085 997271 18 0052360 9999863 0225867 9997229 0407131 9997260 0572736 9983585 0746887 997180 1 19 0056926 9999871 0223869 9997229 0407131 9997100 0581448 9998376 0746887 997180 1 19 0056926 9999871 0223696 9997229 0407131 9991700 0581448 9983220 075688 997143 022566 9999176 0244141 9997086 041586 999187 0762688 999714 076268 099	3	0008727	9999996	0183249	9998321	0357716	9993600	0532074	9985835	0706270	9975028	57 56
7 0020362 9999979 0194883 9998101 0369344 9993177 0543693 9985209 0717876 9744199 8 0023718 9999978 0194791 9998046 0372251 9998060 0546577 9983050 0720777 9973930 10 0029689 9999998 02020691 9997827 0379065 9992280 0569260 994891 0723678 9973930 11 003967 9999938 0209424 9997807 0363676 9999290 0568311 994470 0723678 9973569 12 0034907 9999938 0209424 9997807 0363676 9999290 0568311 994470 0723678 9973545 14 0040724 9999917 0212841 9997867 0363678 9992210 0568311 994470 0732841 9973145 15 004583 9999962 021233 99977474 0366786 9992210 0568311 994470 0732841 9973145 16 0046542 999982 0211649 99978760 0369269 9992240 0564024 9944081 0738184 9972717 17 0044967 999981 022365 9997820 0369260 9992240 0566029 998987 0741085 997271 18 0052560 9999862 0221067) 9997856 0395606 99922176 056932 9983761 0741085 9972716 18 0052560 9999983 0222865 9997829 0407131 999760 059832 9983761 0744085 997286 18 0052560 9999983 0222865 9997829 0407131 9997100 0581448 9993848 0749787 9971861 19 00656958 9999978 0222899 9997292 0407131 9991700 0581448 9993820 0752668 9997182 21 0061066 9999913 0225699 999729 0407131 9991700 0581448 9993220 0756689 997183 22 0066904 9999776 0244141 9997086 0416860 9991827 0678644 9983240 997182 23 0066904 9999776 0244424 9997086 0416860 9991180 0581489 9998217 0776489 9971193 24 0009813 9999964 0243822 9997110 0481263 9991100 0581489 9998270 0776489 9971133 25 007563 9999713 0225094 999647 048370 9990808 05864871 9999182 0990808 0776199 9990808 07776199 9990809 077780 999089 999089 07780 9990899 999089 999089 999089 999089 999089 999089 999089 999089 9990899 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089 999089	5	0014544					9993390	0537883	9985524	0712073	9974615	55
8 0023211 1999973 019779] 9998044 0732251 9993069 0546597 9985050 0720777 9973390 10 0029089 9909940 0203069 999398 0737806 5992851 052406 9984731 0725680 9973570 11 0031998 9999940 0205616 9998767 0303071 9992740 0555311 9984707 0729481 9973587 1300711 072071 99937370 0203044 997807 0333378 9992629 055531 998408 073578 999378 12 0034907 9999928 0212332 9977140 0336785 9992404 066024 998408 07332382 9973145 14 0040724 9999970 0212941 997650 0303298 9992404 066024 9984081 0738184 9972717 15 0043533 9999905 0211049 9997650 0303298 999240 0660928 9983717 0741085 9972281 16 0045642 9999987 02221067 999746 0039241 999220 0566928 9983715 0743085 9972281 17 0049451 9999978 0222965 997462 0308411 992200 056928 9983751 0743085 9972281 17 0049451 9999978 0222965 997462 040131 999206 0772736 9983585 0746887 9972051 17 0055258 999987 0223050 9997228 0407131 999173 0568444 9982050 0752688 999987 0223050 9997224 0407131 999170 0581444 9982050 0752688 9997140 0233626 9997224 0407131 999170 0581444 9982050 0752688 9971452 0407131 999170 0581444 9993082 075650 999714 0223065 9997124 0407131 999170 0581444 9993082 075650 999714 022306 999572 023065 9997124 0407131 999170 0581444 9993082 075650 999714 0230185 999971 0230656 9997124 0407131 999170 0581444 9993082 075650 999714 0230185 999971 023065 9997105 0418757 999128 003064 999710 0752688 999714 0250138 999669 023064 999714 0250138 999669 023064 999714 0250138 999669 023064 999071 075268 999714 0250138 999669 023064 999672 0764299 999070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077299 9997070 077290 9999070 077290 9997070 077290 99	_											$\frac{54}{53}$
10 (003998) 9999998 (200616) 999787 (303071) 9992740 (555311) 998470 (729341) 9973307 (72941)	8	0023271	9999973	0197791	9998044	0372251	9993069	0546597	9985050	0720777	9973990	52
11   0031998   0999949   020616   9897867   0380271   9992740   0550311   9984408   0732382   9973145   13   0040724   9999928   0212332   999784   0380785   9992810   0568215   9984408   0732382   9973145   13   0040724   9999982   0212332   9997863   0380592   9992404   0054024   9984081   07381814   9972517   15   0045632   999982   0218149   999780   0382598   9992240   00560328   9893917   0741085   9972512   15   0046542   999982   022107   999780   0382598   9992290   0508238   999281   0523956   9997420   038041   9992716   056832   983515   0748388   9972502   038061   0999863   0322867   999782   038041   999276   056832   983518   0748387   9972502   038061   0999863   0322867   9997842   038041   999187   0575246   9883418   0749787   9971851   0382590   9999881   0232690   9997380   0444084   9991887   0378544   9893850   0762868   9971453   038064   999187   038064   999887   038064   999786   048064   999187   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   999882   038064   038082   03808				0203608	999 <b>7</b> 986 999 <b>792</b> 7	0375158 0378065				0726580	9973569	51 50
13   0037815				0206516		0380971					9973357  9973145	49 48
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60 0174524 9998477 0348995 9993908 0523360 9986295 0697565 9975641 0871557 9961947  Co-sine. Sine. Co-sine. Sine. Co-sine. Sine. Co-sine. Sine. Co-sine. Sine.	58	0168707	9998577	0343181	9994110	0517550	9986598	0691761	9976045	0865762	9962452	3 2
									9975843 9975641			0
900 900 900 950		Co-sine.					Sine.		<del></del>	Co-sine.	Sine.	7
88 87 80	_	8	90	8	8°	8	7°	8	<b>3°</b>	8	50	

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′	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Bine.	Co-sine.	7
0	0871557	9961947	1045285	9945219	1218693	9925462	1391731	9902681	1564345	9876883	60
1 2	0874455 0877353	996169 <b>3</b> 9961 <b>43</b> 8	1048178 1051070	9944914 9944609	1221581 1224468	9925107 9924751	1394612 1397492	9902276 9901869	1567218 1570091	9876428 9875972	59 58
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7 8	0891840 0894738	99601 <i>5</i> 2 9959892	1065533 1068425	9943070 9942760	1238901 1241788	9922959 9922599	1411892 1414772	9899826 9899415	1584453 1587325	9873678 9873216	53 52
9	0897635	9959631	1071318	9942448	1244674	9922237	1417651	9899003	1590197	9872754	51
10 11	0900532 0903429	99593 <b>7</b> 0 9959107	1074210 1077102	9942136 9941 <b>823</b>	1247560 1250446	9921874 9921511	1420531 1423410	9898590 9898177	1593069 1595940	9872291 9871827	50 49
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16 17	0917913	9957783	1091560	9940246	1264875	9919682 9919314	1437805	9896096	1610297	9869496	44
18	0920809 0923706	9957515 9957247	1094452 1097 <b>3</b> 43	9939928 9939610	1267761 1270646	9918944	1440684 1443562	9895677 9895258	1613167 161 <b>6038</b>	9869027 9868557	42
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′	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	7
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0 1 2 3 4 5 6	1736482 98 1739346 98 1742211 98 1745075 98 1747939 98 1750803 98	348078 347572 347066 346 <b>558</b> 346050	1908090 1910945 1913801 1916656	9816272 9815716 9815160 9814603 9814045 9813486 9812927	2079117 2081962 2084807 2087652 2090497 2093341 2096186	9781476 9780871 9780265 9779658 9779050 9778442 9777832	2249511 2252345 2255179 2258013 2260846 2263680	9743701 9743046 9742390	2419219 2422041 2424863 2427685 2430507 2433329 2436150	9702957 9702253 9701548 9700842 9700136 9699428 9698720	60 59 58 57 56 56 55
7 8 9 10 11 12	1759395 98 1762258 98 1765121 98 1767984 98 1770847 98	344521 344010 343498 342985 342471 341956	1933782 1936636 1939490 1942344	9812366 9811805 9811243 9810680 9810116 9809552 9808986	2099030 2101874 2104718 2107561 2110405 2113248 2116091	9777222 9776611 9775999 9775387 9774773 9774159 9773544	2269346 2272179 2275012 2277844 2280677 2283509 2286341	9739100 9738439 9737778 9737116 9736453 9735789 9735124	2438971 2441792 2444613 2447433 2450254 2453074 2455894	9698011 9697301 9696591 9695879 9695167 9694453 9693740	53 52 51 50 49 48
13 14 15 16 17 18 19	1776573 98 1779435 98 1782298 98 1785160 98 1788022 98	340924 340407 339889 339370 338850	1945197 1948050 1950903 1953756 1956609 1959461 1962314	9808420 9807853 9807285 9806716 9806147 9805576	2116091 2118934 2121777 2124619 2127462 2130304 2133146	9772928 9772311 9771693 9770456 9769836	2289172 2292004 2294835 2297666 2300497 2303328	9734459 9733793 9733125 9732458 9731789 9731119	2458713 2461533 2464352 2467171 2469990 2472809	9693025 9692309 9691593 9690875 9690157	46 45 44 43 42 41
20 21 22 23 24 25	1793746 98 1796607 98 1799469 98 1802330 98 1805191 98	137808 137286 136763 136239 135715	1965166 1968018 1970870 1973722 1976573	9805005 9804433 9803860 9803286 9802712 9902136	2135988 2138829 2141671 2144512 2147353 2150194	9769215 9768593 9767970 9767347 9766723	2306159 2308989 2311819 2314649 2517479 2520309	9730449 9729777 9729105 9728432 9727759 9727084	2475627 2478445 2481263 2484081 2486899 2489716	9688719 9687998 9687277 9686555 9685832 9685108	40 39 38 37 36
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<u>'</u>	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	<u> </u>

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<u>, , , , , , , , , , , , , , , , , , , </u>	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	<u>'</u>
0	2588190 2591000	9659 <b>258</b> 9658505	2756374 2759170	9612617 9611815	2923717 2926499	9563048 9562197	3090170 3092936	9510565 9509666	3255682 3258432	9455186 9454238	60 59
2	2593810 2596619	9657751 9656996	2761965 2764761	9611012 9610208	2929280	9561345 9560492	3095702 3098468	9508766 9507865	3261182 3263932	9453290 9452341	58 57
4	2599428	9656240	2767556	9609403	2934842	9559639	3101234	9506963	3266681	9451391	56
6	2602237 2605045	9655484 9654726	2770352 2773147	96 <b>08</b> 598 9607792	2937623 2940403	9558785 9557930	3103999 3106764	9506061 9505157	3269430 3272179	945 <b>0441</b> 9449489	55 54
7	2607853	9653968	2775941	9606984	2943183	9557074	3109529	9504253	3274928	9448537	53
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10 11	2616277 2619085	9651689 9650927	2784324 2787118	9604558 9603748	2951 <i>5</i> 22 2954302	9554502 9553643	3117822 3120586	9501536 9500629	3283172 3285919	9445675 9444 <b>72</b> 0	50 49
12	2621892	9650165	2789911	9602937	2957081	9552784	3123349	9499721	3288666	9443764	48
13 14	2624699 2627506	9649402 9648638	2792704 2795497	9602125 9601312	2959859 2962638	9551923 9551062	3126112 3128875	9498812 9497902	3291413 3294160	9442807 9441849	47 46
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21 22	2647147 2649952	9643268 9642497	2815042 2817833	9595600 9594781	2982079 2984856	9545009 9544141	3148209 3150969	9491511 9490595	3313379 3316123	9435122 9434157	39 38
23	2652757	9641726	2820624	9593961	2987632	9543273	3153730	9489678 9488760	3318867 3321611	9433192	37 .
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27 28	2663973 2666777	9638633 9637858	2831785 2834575	9590672 9589848	2998734 3001 <i>5</i> 09	9539790 9538917	3164770 3167 <i>5</i> 29	9486002 9485081	3332584	9429324 9428355	33 32
29 30	2669581 2672384	9637081 9636305	2837364 2840153	9589023 9588197	3004284 3007058	9538044 9537170	3170288 3173047	9484159 9483237	3335326 3338069	9427386 9426415	31 30
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48 49	2722802 2725601	9622180	2890318	9573195 9572354	3056953 3059723	9521294 9520404	3222657 3225411	9466493 9465555	3390116	9408808	12 11
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53 54	2736794 2739592	9618210  9617413	2904239 2907022	9568981 9568136	3070798 3073566	9516838 9515944	3236422 3239174	9461 <b>7</b> 95 94608 <b>5</b> 4	3401060 3403796	9403871 9402881	7 6
55	2742390	9616616	2909805	9567290	3076334	9515050	3241926	9459911	3406531	9401891	5
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58 59	2750781 2753577	9614219	2918153	9564747	<b>3</b> 084636	9512361 9511464	3250180	9457078 9456132	3414734 3417468	9 <b>3</b> 98914 9397921	2
60	2756374	9612617	2923717	9563048	3090170	9510565	3255682	9455186		9396926	ō
1	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	<u>′</u>
	7	4°	7	80	7	<b>2</b> °	7	1°	70	0°	

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7	Sine.	Coisine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	7
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5	3433865	9391942	3597254	9330582	3759547	9266380	3920695	9199356	4080649	9129529	55
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59	3580964	9336846	3743369	9272928	3904633	9206185	4064709	9136637	4223546	9064307	
60	3583679	9335804	3746066	9271839	3907311	9205049	4067366	9135455	4226183	9063078	
<u>′</u>	Co-sine.	Sine.	<u>′</u>								
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0	4226183 4228819	9063078 9061848	4383711 4386326	8987940 8986665	4539905 4542497	8910065 8908744	4694716 4697284	8829476 8828110	4848096 4850640	8746197 8744786	60 59
3	4231455 4234090	9060618 9059386	4388940 4391553	8985389 8984112	4545088 4547679	8907423 8906100	4699852 4702419	8826743 8825376	4853184 4855727	8743375 8741963	58 57
4 5	4236725 4239360	9058154 9056922	4394166 4396779	8982834 8981555	4550269 4552859	8904777 8903453	4704986 4707553	8824007 8822638	4858270 4860812	8740550 8739137	56 55
6	4241994	9055688	4399392	8980276	4555449	6902128	4710119	8821269	4863354	8737722	54
7 8 9	4244628 4247262	9054454	4402004 4404615 4407227	8978996 8977715	4558038 4560627 4563216	8900803 8899476 8898149	4712685 4715250	8819898 8818527	4865895 4868436	8736307 8734891	53 52
10 11	4249895 4252528 4255161	9051983 9050746 9049509	4409838 4412448	8976433 8975151 8973868	4565804 4568392	8896822 8895493	4717815 4720380 4722944	8817155 8815782 8814409	4870977 4873517 4876057	3733475 8732058 8730640	51 50 49
12	4257793	9048271	4415059	8972584	4570979	8894164	4725508	3813035	4878597	8729221	48
13 14	4260425 4263056	9047032 9045792	4417668 4420278	8971299 8970014	4573566 4576153	8892834 8891503	4728071 4730634	8811660 8810284	4881136 4883674	8727801 8726381	47 46
15 16 17	4265687 4268318 4270949	9044551 9043310	4422887 4425496 4428104	8968727 8967440	4578739 4581325 4583910	8890171 8888839 8887506	4733197 4735759	8808907	4886212 4838750 4891288	8724960 8723538 8722116	45
18	4273579	9042068 9040825	4430712	8966153 8964864	4586496	3886172	4738321 4740882	8806152 8804774	4893825	8720693	43
19 20	4276208 4278838	9039582 9038333	4433319 4435927	8963575 8962285	4589080 4591665	8884838 8883503	4743143 4746004	8803394 8802014	4896361 4898897	8719269 8717844	41 40
21 22 23	4281467 4284095	90 <b>3</b> 7093	4438534 4441140	8960994 8959703	4594248 4596832	8882166 8880830	4748564 4751124	8800633 8799251	4901433 4903968	8716419 8714993	39 38
24	4286723 4289351	9034600 9033353	4443746 1446352	8958411 8957118	4599415 4601998	8879492 8878154	4753683 4756242	8797869 8796486	4906503 4909038	8713566 8712138	37 36
25 26	4291979 4294606	9032105 9030856	4448957 4451562	8955824 8954529	4604580 4607162	8876815 8875475	4758801 4761359	8795102 8793717	4911572 4914105	8710710 8709281	35 34
27 28 29	4297233 4299859 4302485	9029606 9028356	4454167 4456771	8953234 8951938	4609744 4612325	8874134 8872793	4763917 4766474	8792332 8790946 8789559	4916638	8707851 8706420	33 32
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37 38	4323481 4326103	9017068 9015810	4480192 4482792	8940240 8938936	4635538 4636115	8860688 8859339	4789472 4792026	8778437 8777043	4941948 4944476	8693512 8692074	23 22
39 40 41	4328726 4331348 4333970	9014551 9013292	4485392 4487992 4490591	8937632 8936326 8935021	4640692 4643269 4645845	8857989 8856639 8855288	4794579 4797131	8775649 8774254 8772858	4947005 4949532 4952060	8690636 8689196	21 20
42	4336591	9012031 9010770	4493190	8933714	4648420	3853936	4799683 4802235	8771462	4954587	8687756 8686315	19 18
43 44	4339212 4341832	9009508 9008246	4495789 4498387	8932406 8931098	4650996 4653571	8852584 8851230	4801786 4807337	8770064 8768666	4957113 4959639	8684874 8683431	17 16
45 46 47	4344453 4347072 4349699	9006982	4500984 4503582	8929789 8928480	4656145 4658719	8849876 8848522	4809888 4812438	8767268 8765868	4962165 4964690	8681988 8680544	15 14
48	4349692 4352311	9004453 9003188	4506179 4508775	8927169 8925858	4661293 4663866	8847166 8845810	4814987 4817537	8764468 8763067	4967215 4969740	8679100 8677655	13 12
49 50	4354930 4357548	9001921 9000654	4511372 4513967	8924546 8923234	4666439 4669012	8844453 8843095	4820086 4822634	8761665 8760263	4972264 4974787	8676209 8674762	11 10
51 52 53	4360166 4362784 4365401	8999386 8998117	4516563 4519158	8921920 8920606	4671584 4674156	8841736 8840377	4325182 4827730	8758859 8757455	4977310 4979833	8673314 8671866	9
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55 56	4370634 4373251	8994307 8993035	4526941 4529535	8916659 8915342	4681869 4684439	8836295 8834933	4835370 4837916	8753239 8751832	4987399 4989920	8667517 8666066	5
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0	5000000	8660254	5150381	8571673	5299193	8480481	5446390	8386706	5591929	8290376	6
ĭ	5002519	8658799	5152874	8570174	5301659	8478939	5448830	8385121	5594340	8288749	5
2	5005037	8657344	5155367	8568675	5304125	8477397	5451269	8383536	5596751	8287121	ŧ
3	5007556	8655887	5157859	8567175	5306591	8475853	5453707	8381950	5599162	8285493	l
4	5010073	8651430	5160351	8565674	5309057	8474309	5456145	8380363	5601572	8283864	5
5	5012591	8652973	5162842	8564173	5311521	8172765	5458583	8378775	5603981	8282234	Ł
Ě	5015107	8651514	5165333	8562671	5313986	8471219	5461020	8377187	5606390	8280603	Ł
7	5017624	8650055	5167824	8561168	5316450	8469673	5463456	8375598	5608798	8278972	ī
Ŕ		8648595		8559664	5318913	8468126	5465892	8374009	5611206	8277340	l
9	5020140 5022655	8647134	5170314 5172804	8558160	5321376	8466579	5468328	8372418	5613614	8275708	E
10	5025170	8645673	5175293	8556655	5323839	8465030	5470763	8370827	5616021	8274074	Z
iĭ	5027685	8644211	5177782	8555149	5326301	8463481	5473198	8369236	5618428	8272440	1
12	5030199	8642748	5180270	8553643	5328763	8461932	5475632	8367643	5620834	8270806	1
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13	5032713	8641284	5182758	8552135	5331224	8460381	5478066	8366050	5623239	8269170	1 4
14	5035227	8639820	5185246	8550627	5333685	8458830	5480499	8364456	5625645	8267534	4
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21 22	5052809	8628079	5202646	8540051 8533538	5353355	8446395	5499950	8351680	5644869	8254420	1
zz 23	5055319		5205130		5355812		5502379	8350080	5647270	8252778	1
23 24	5057828	8626608 8625137	5207613	8537023 8535508	5358268	8444838 8443279	5504807	8348479	5649670	8251135	1
<del>24</del>	5060838	0020137	5210096	0000000	2550200	0443219					1-
25	5062846	8623664	5212579	8533992	5360724	8441720	5507236	8346877	5652070	8249491	3
26	5065355	8622191	5215061	8532475	5363179	8440161	<b>55</b> 09663	8345275	5654469	8247847	1 3
27	5067863	8620717	5217543	8530958	5365634	8438600	5512091	8343672	5656868	8246202	60.00
28	5070370	8619243	5220024	8529440	5368089	8437039	5514518	8342068	5659267	8244556	1 3
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29 30	5075384	8616292	5224986	8526402	5372996	8433914	5519370	8338858	5664062	8241262	3
_				010400	5975 140	0490051	5501705	8337252	5666459	8239614	9
31	5077890	8614815	5227466	8524881	5375149	8432351	5521795		5668856	8239614	2
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35	5087910	8608901	5237381	8518793		8426091	5533915	8329212	5678437	8231364	2
36	5090414	8607420	5239859	8517269	5387708	8424524					<b> </b> –
37	5092918	8605939	5242336	8515745	5390158	8422956	5536338	8327602	5680832	8229712	2
38	5095421	8604457	5244813	8514219	5392608	8421388	5538760	8325991	5683225	8228059	2
39	5097924	8602975	5247290	8512693			5541182	8324380	5685619	8226405	2
40	5100426	8601491	5249766	8511167		8418219	5543603	8322768	5688011	8224751	2
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42	5105429	8598523	5254717	8508111	5402403	8415108	5548444	8319541	5692795	8221440	li
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43	5107930	8597037	5257191	8506582	5404851	8413536	5550864	8317927	5695187	8219784	1
44	5110431	8595551	5259665	8505053		8411963	5553283	8316312	5697577	8218127	]
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47	5117930	8591088	5267085	8500459	5414637	8407241	5560539	8311463	5704747	8213152	!
48	5120429	8589599	<b>52</b> 69558	8498927	5417082	8405666	5562956	8309845	5707136	8211492	
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Šĩ.	5127923	8585127	5276973	8494325	5424415	8400936	5570206	8304987	5714299	8206509	Ι.
52	5130420	8583635	5279443	8492790	5426859	8399357	5572621	8303366	5716686	8204846	ı
53	5132916	8582143	5281914	8491254	5429302		5575036	8301745	5719073	8203183	1
64	5135413	8580649	<b>5284383</b>	8489717	5431744	8396199	5577451	8300123	5721459	8201519	1
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55	5137908	8579155	5286853	8488179	5434187	8394618	5579865	8298500	5723844	8199854	1
56	5140404	8577660	5289322	8486641	5436628	8393037	5582279	8296877	5726229	8198189	١
57	5142899	8576164	5291790	8485102	5439069		5584692	8295252	5728614	8196523	ı
58	5145393	8574668	<b>5294258</b>	8483562	5441510		5587105	8293628	5730998	8194856	1
59	5147887	8573171	5296726	8482022	5443951		5589517	8292002	5733381	8193189	ı
60	5150381	8571673	5299193	8480481	5446390	8386706	5591929	8290376	5735764	8191520	L
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7 8 9 10 11 12	5752432 5754811 5757190 5759568 5761946 5764323	8179824 8178151 8176476 8174801 8173125 8171449	5894314 5896663 5899012 5901361 5903709 5906057	8078185 8076470 8074754 8073038 8071321 8069603	6034400 6036719 6039038 6041356 6043674 6045991	7974084 7972329 7970572 7968815 7967058 7965299	6172648 6174936 6177224 6179511 6181798 6184084	7867555 7865759 7863963 7862165 7860367 7858569	6309015 6311272 6313528 6315784 6318039 6320293	7758629 7756794 7754957 7753121 7751283 7749445	53 52 51 50 49 48
13 14 15 16 17 18	5766700 5769076 5771452 5773827 5776202 5778576		5908404 5910750 5913096 5915442 5917787 5920132	8067885 8066166 8064446 8062726 8061005 8059283	6048308 6050624 6052940 6055255 6057570 6059884	7963540 7961780 7960020 7958259 7956497 7954735	6186370 6188655 6190939 6193224 6195507 6197790	7856770 7854970 7853169 7851368 7849566 7847764	6322547 6324800 6327053 6329306 6331557 6333809	7747606 7745767 7743926 7742086 7740244 7738402	47 46 45 44 43 42
19 20 21 22 23 24	5780950 5783323 5785696 5788069 5790440 5792812	8159695 8158013 8156330 8154647 8152963 8151278	5922476 5924819 5927163 5929505 5931847 5934189	8057560 8055837 8054113 8052389 8050664 8048938	6062198 6064511 6066824 6069136 6071447 6073758	7952972 7951208 7949444 7947678 7945913 7944146	6200073 6202355 6204636 6206917 6209198 6211478	7845961 7814157 7842352 7840547 7838741 7836935	6336059 6338310 6340559 6342808 6345057 6347305	7736559 7734716 7732872 7731027 7729182 7727336	41 40 39 38 37 36
25 26 27 28 28 29 29	5795183 5797553 5799923 5802292 5804661 5807030	8149593 8147906 8146220 8144532 8142844 8141155	5936530 5938871 5941211 5943550 5945889 5948228	8047211 8045484 8043756 8042028 8040299 8038569	6076069 6078379 6080689 6082998 6085306 6087614	7942379 7940611 7938843 7937074 7935304 7933533	6213757 6216036 6218314 6220592 6222870 6225146	7835127 7833320 7831511 7829702 7827892 7826082	6349553 6351800 6354046 6356292 6358537 6360782	7725489 7723642 7721794 7719945 7718096 7716246	35 34 33 32 31 30
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43 44 45 46 47 48	5842497 5844857 5847217 5849577	8119137 8117439 8115740 8114040 8112339 8110638	5978583 5980915 5983246 5985577 5987906 5990236	8014278	6117572 6119873 6122173 6124473 6126772 6129071	7908676 7906896 7905115 7903333	6254696 6256966 6259235 6261503 6263771 6266038	7802485 7800665 7798845 7797024 7795202 7793380	6389916 6392153 6394390 6396626 6398862 6401097	7692137 7690278 7688418 7686558 7694697 7682835	17 16 15 14 13 12
49 50 51 52 53 54	5859010 5861367 5863724	8108936 8107234 8105530 8103826 8102122 8100416	5992565 5994893 5997221 5999549 6001876 6004202	7998593 7996847	6131369 6133666 6135964 6138260 6140556 6142852	7899767 7897983 7896198 7894413 7892627 7890841		7791557 7789733 7787909 7786064 7784258 7782431	6403332 6405566 6407799 6410032 6412264 6414496	7680973 7679110 7677246 7675382 7673517 7671652	11 10 9 8 7 6
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-	4	0°	4	10	1 4	20	4	3°	4	<b>4°</b>	<del></del>
-	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	Sine.	Co-sine.	-
0	6427876	7660444	6560590	7547096	6691306	7431448	6819984	7313537	6946581	7193398	
1 2	6430104 6432332	7658574 7656704	6562785 6564980	7545187 7543278	6693468 6695628	7429502 7427554	6822111	7311553 7309568	6948676	7191377	59
3	6434559	7654832	6567174	7541368	6697789	7425606	6824237 6826363	7307583	6950767 6952858	7189355 7187333	57
4 5	6436785 6439011	7652960 7651087	6569367 6571560	7539457 7537546	6699948 6702108	7423658 7421708	6828489 6830613	7305597 7303610	6954949 695 <b>7</b> 039	7185310 718328 <b>7</b>	56 55
6	6441236	7649214	6573752	7535634	6704266	7419758	6832738	7301623	6959128	7181263	54
7	6443461	7647340	6575944	7533721	6706424	7417808 7415857	6834861	7299635	6961217	7179238	53
8 9	6445685 6447909	7645465 7643590	6578135 6580326	7531808 7529894	6708582 6710739	7413905	6836984 6839107	7297646 7295657	6963305 6965392		52 51
10 11	6450132 6452355	7641714 7639838	6582516 6584706	7527980 7526065	6712895 6715051	7411953 7410000	6841229 684 <b>3</b> 350	7293668 7291677	6967479 6969565	7173161 7171134	50 49
12	6454577	7637960	6586895	7524149	6717206	7408046	6845471	7289686	6971651	7169106	48
13	6456798	7636082	6589083	7522233 7520316	6719361	7406092 7404137	6847591	7287695	6973736	7167078	47
14 15	6459019 6461240	7634204 7632325	6591271 6593458	7518398	6721515 6723668	7402181	6849711 6851830	7285703 7283710	6975821 6977905	7165049 7163019	46 45
16 17	6463460 6465679	7630445 7628564	6595645 6597831	7516480 7514561	6725821 672797 <b>3</b>	7400225 7398268	6853948 6856066	7281716 7279722	6979988 6982071	7160989 7158959	44
18	6467898	7628564 7626633	6600017	7512641	6730125	7396311	6858184	7277728	6984153	7156927	42
19 20	6470116 6472334	7624802 7622919	6602202 6604386	7510721 7508800	6732276 6731427	7394353 7392394	6860300 6862416	7275732 7273736	6986234 6988315	7154895 7152863	41 40
21	6474551	7621036	6606570	7506879	6736577	7390435	6864532	7271740	6990396	7150830	39
22 23	6476767 6478984	76191 <i>5</i> 2 761 <b>7</b> 268	6608754 6610936	7504957 7503034	6738727 6740876	7388475 7386515	6866647 6868761	7269743 7267745	6992476 6994555	7148 <b>7</b> 96 7146762	38 37
24	6481199	7615383	6613119	7501111	6743024	7334553	6870875	7265747	6996633	7144727	36
25 26	6483414 6485628	7613497 7611611	6615300 6617482	7499187 7497262	6745172 6747319	7382592 7380629	6872988 6875101	7263748 7261748	6998711 7000789	7142691 7140655	35 34
27	6487842	7609724	6619662	7495337	6749466	7378666	6877213	7259748	7002866	7138618	33
28 29	6490056 6492268	7607837 760 <b>5</b> 949	6621842 6624022	7493411 7491484	6751612 6753757	7376703 7374738	6879325 6881435	7257747 7255746	7004942 7007018	7136581 7134543	32 31
30	6494480	7604060	6626200	7489557	6755902	7372773	6883546	7253744	7009093	7132504	30
31 32	6496692 6498903	7602170 7600230	6628379 6630557	7487629 7485701	6758046 6760190	7370808 7368842	6885655 6887765	7251741 7249738	7011167	7130465	29 28
33	6501114	7598389	6632734	7483772	6762333	7366875	6889873	7247734	3 7013241 7128426 4 7015314 7126385		27
34 35	6503324 6505533	7596498 7594606	6634910 6637087	7481842 7479912	6764476 6766618	7364908 7362940	6891981 6894089	7245729 7243724	7017387 7019459	7124344 7122303	26 25
36	6507742	7592713	6639262	7477981	6768760	7360971	6896195	7241719	7021531	7120260	24
37 38	6509951 6512158	7590820 7588926	6641437 6643612	7476049 7474117	6770901 6773041	7359002 7357032	6898302 6900407	7239712 7237705	7023601 7025672	7118218 7116174	23 22
39	6514366 6516572	7587031	6645785 6647959	7472184. 7470251	6775181	7355061	6902512	7235698 7233690	7027741 7029811	7114130	21
40 41	6518778	7583240	6650131	7468317	6777320 6779459	7351118	6904617 6906 <b>7</b> 21	7231681	7031879	7112086 7110041	20 19
42	6520984	7581343	6652304	7466382	6781597	7349146	6908324	7229671	7033947	7107995	18
43 44	6523189 6525394	7579446 7577548	6654475 6656646	7464446 7462510	6783734 6785871	7347173 7345199	6910927 6913029	7227661 7225651	7036014 7038081	7105948 7103901	17 16
45 46	6527598 6529301	7575650 7573751	6658817 6660987	7460574 7458636	6788007 6790143	7343225 7341250	6915131 6917232	7223640 7221628	7040147 7042213	7101854 7099806	15 14
47	6532004	7571851	6663156	7456699	6792278	7339275	6919332	7219615	7044278	<b>7</b> 09775 <b>7</b>	13
48 49	6534206 6536408	7569951	6665325 6667493	7454760 7452821	6794413	7337299 7335322	6921432	7217602	7046342	7095707	12
50	6538609	7568050 7566148	6669661	7450881	6796547 6798681	7333345	6923531 6925630	7215589 7213574	7048406 7050469	7093657 709160 <b>7</b>	11 10
51 52	6540810 6543010	7564246 7562343	6671828 6673994	7448941 7446999	6800813 6802946	7331367 7329388	6927728 6929825	72115 <b>5</b> 9 7209544	7052532 7054594	7089556 7087504	9
53	6545209	7560439	6676160	7445058	6805078	7327409	6931922	7207528	7056655	7035451	7
51 55	6547408 6549607	7558535	6678326	7443115	6807209 6809339	7325429	6934018	7205511	7058716	7083398	
56	6551804	7556630 7554724	6680490 6682655	7441173 7439229	6811469	7323449 7321467	6936114 6938209	7203494 7201476	7060776 7062835	7081345 7079291	5
57 58	6554002 6556198	7552818 7550911	6684818 6686981	7437285 7435340	6813599 6815 <b>72</b> 8	7319486 7317503	6940304 6942398	7199457 7197438	7064894 7066953	7077236 7075180	3 2
59 60	6558395 6560590	7549004 7547096	6689144	7433394 7431448	6817856 6819984	7315521	6944491	7195418	7069011	7073124	1
<u> </u>	Co-sine.	Sine.	6691306 Co-sine.	5ine.	Co-sine.	7313537 Sine.	6946584 Co-sine.	7193398 Sine.	7071068 Co-sine.	7071068 Sine.	<u>0</u>
	48	<u> </u>	48	Bo	4'	70	40	·	4	50	
<u> </u>	-30		-70		-2.		-44		4.	,	

#### DIFFERENCE OF LATITUDE AND DEPARTURE

==		-	<del></del>						<del></del>			===	<del></del>
Coun	SE.	DISTA	NCE 1.	DISTA	NCE 2.	DISTA	NCE 3.	DISTA	NCE 4.	DISTA	KCE 5.	Cou	RSE.
Pts.	D.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	D.	Pts.
03	1 2 3 4 5	0.9994 0.9988 0.9986 0.9976	0.0175 0.0349 0.0491 0.0523 0.0698 0.0872	1.9988 1.9976 1.9973 1.9951	0.0349 0.0698 0.0981 0.1047 0.1395 0.1743	2.9995 2.9982 2.9964 2.9959 2.9927 2.9886	0.0524 0.1047 0.1472 0.1570 0.2093 0.2615	3.9952 3.9945 3.9903	0.2093 0.2790	4.9970 4.9940 4.9931 4.9878	0.2453 0.2617 0.3488	89 88 87 86 85	74
Oj	6	0.9952 0.9945	0. <del>0980</del> 0.1045	1.9904 1.9890	0.1960 0.2091	2.9856 2.9836	0.2941 0.3136	3.9807 3.9781	0.8921 0.4181	4.9759 4.9726	0.4901 0.5226	84	74
02	7 8 9	0.9903 0.9892	0.1219 0.1392 0.1467 0.1564	1.9805 1.9784	0.2437 0.2783 0.2935	2.9776 2.9708 2.9675 2.9631	0.3656 0.4175 0.4402 0.4693	3.9611 3.9567	0.4875 0.5567 0.5869 0.6257	4.9459	0.6093 0.6959 0.7337 0.7822	83 82 81	72
-	10 11	0.9848	0.1564 0.1736 0.1908	1.9696 1.9633	0.3129 0.3473 0.3816	2.9631 2.9544 2.9449 2.9424	0.4693 0.5209 0.5724 0.5853	3.9392 3.9265	0.6946	4.9240		81 80 79	7
	12 13 14	0.9781	0.2079	1.9563 1.9487	0. <del>3902</del> 0.4158 0.4499 0.4838		0.6237 0.6749 0.7258	3.9126 3.8975 3.8812	0.8316 0.8998	4.8907    4.8719	1.0396 1.1248 1.2096	78 77 76	
14	15 16	0.9700 0.9659 0.9613	0.2588 0.2756	1.9401 1.9319 1.9225	0.4860 0.5176 0.5513	2.9101 2.8978 2.8838	0.7289 0.7765 0.8269	3.8801 3.8637 3.8450		4.8502 4.8296 4.8063	1.2149 1.2941 1.3782	75 74	63
13	17 18	0.9569 0.9563 0.9511	0.2903 0.2924 0.3090	1.9139 1.9126 1.9021	0.5806 0.5847 0.6180	2.8708 2.8689 2.8532	0.8709 0.8771 0.9271	3.8278	1.1611 1.1695 1.2361	4.7847 4.7815 4.7553	1.4514 1.4619 1.5451	73 72	6 <u>3</u>
13	19 20	0.9415 0.9397	0.3256 0.3369 0.3420 0.3584	1.8831 1.8794	0.6511 0.6738 0.6840	2.8366 2.8246 2.8191 2.8007	0.9767 1.0107 1.0261	3.7821 3.7662 3.7588		4.7276 4.7077 4.6985	1.6844 1.7101	71 70	64
2	21 22	0.9272 0.9239	0.3584 0.3746 0.3827	1.8544 1.8478	0.7167 0.7492 0.7654	2.8007 2.7816 2.7716	1.0751 1.1238 1.1481	3.7343 3.7087 3.6955	1.4984 1.5307	4.6679 4.6359 4.6194	1.8730 1.9134	69 68	6
21	23 24 25	0.9135	0.3907 0.4067 0.4226 0.4276	1.8410 1.8271 1.8126 1.8000	0.7815 0.8135 0.8452 0.8551	2.7615 2.7406 2.7189 2.71 <del>20</del>	1.1722 1.2202 1.2679 1.2827	3.6820 3.6542 3.6252 3.6160	1.6269	4.5315	2.0337	67 66 65	54
~4 	26 27 28	0.8988	0.4384 0.4540 0.4695	1.7976	0.8767 0.9080 0.9389	2.6964		3.5952 3.5640	1.7535 1.8160 1.8779		2.1919 2.2700	64 63 62	
21	28 29 30	0.8819 0.8746 0.8660	0.4714 0.4848 0.5000	1.7638 1.7492 1.7321	0.9428 0.9696 1.0000	2.6458 2.6239 2.5981	1. <del>4142</del> 1.4544 1.5000	3.5277 3.4985 3.4641	1.9356 1.9392 2.0000	4.4096 4.3731 4.3301	2.8570 2.4240 2.5000	61 60	53
24	31	0.8577 0.3572	0.5141 0.5150	1.7155 1.7143	1.0232 1.0301	2.5732 2.5715	1.5423 1.5451	3.4309 3.4287	2.0564 2.0602	4.2886 4.2858	2.5705 2.5752	59	5 <u>1</u>
3	32 33 34 35 36	0.8387 0.8315 0.8290 0.8192	0.5299 0.5446 0.5556 0.5592 0.5736 0.5878	1.6961 1.6773 1.6699 1.6581 1.6383	1.1111 1.1184 1.1472	2.5441 2.5160 2.4944 2.4871 2.4575 2.4271	1.6667 1.6776 1.7207	3.3922 3.3547 3.3259 3.3162 3.2766 3.2361	2.1786 2.2223 2.2368 2.2943	4.2402 4.1934 4.1573 4.1452 4.0958 4.0451	2.7232 2.7779 2.7960 2.8679	58 57 56 55 54	5
3 <u>1</u>	37 38 39	0.8032 0.7986 0.7880 0.7771 0.7730	0.5957 0.6018 0.6157 0.6293 0.6344		1.2586 1.2688	2.4096 2.3959 2.3640 2.3314 2.3190	1.8470 1.8880 1.9082	3.1520 3.1086 3.0920	2.4073 2.4626 2.5173 2.5376	4.9169 3.9932 3.9401 3.8857 3.8650	2.9785 3.0091 3.0783 3.1466 3.1720	53 52 51	44
- 5 <u>1</u>	40 41 42	0.7660 0.7547 0.7431	0.6428	1.5321 1.5094 1.4803 1.4819	1.2856 1.3121 1.3383	2.2981 2.2641 2.2294 2.2229	1.9284 1.9682 2.0074 2.0147	3.0188 2.9726	2.5712	3.8302 3.7735 3.7157 3.7048	3.2139 3.2803 3.3457	50 49 48	41
4	43 44 45	0.7314		1.4627 1.4387 1.4142	1.3640 1.3893 1.4142	2.1941	2.0460	2.9254 2.8774 2.8284	2.7280 2.7786	3.6568 3.5967 3.5355	3.4100 3.4733	47 46 45	4
Pts.	D.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	D.	Pts.
Cou	RSE.	DISTA	NCE 1.	DISTA	NCE 2.	DISTA	NCE 3.	DISTA	NCE 4.	DISTA	NCE 5.	Cov	RSE.

## TO EVERY DEGREE AND QUARTER POINT.

Cour	RSE.	DISTANCE	E 6.	DISTA	wan #	Diami		10	0.121	1-		10-	
De- 1				40,75,3.0	NCE 7.	DISTA	NCE 8.	DISTA	NCE 9.	DISTAR	ICE 10.	Cot	RSE.
Fus.	D.	Lal. D	ep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	D.	Pts.
01	1 2	5.9963 0.2 5.9928 0.2	047 2094 944	6.9989 6.9957 6.9916	0.1222 0.2443 0.3435	7.9904	0.1396 0.2792 0.3025	8.0899	0.1571 0.3141 0.4416	9.9985 9.9939 9.9880	0.1745 0.3490 0.4907	89 88	73
	3 4 5	5.9854 0.4 5.9772 0.5	1140 1185 5229	6.9829 6.9734	0.3664 0.4883 0.6101		0.5581 0.6972	8.9658	0.6278 0.7844	9.9756	0.5234 0.6976 0.8716	87 86 85	L
οł	6 7 8	5.9671 0.6 5.9553 0.7	5881 5272 7312 1350	6.9663 6.9617 6.9478 6.9319		7.9562 7.9404	0.7841 0.8362 0.9750 1.1134	8.9567 8.9507 8.9329 8.9124	0. <del>8022</del> 0.9408 1.0968 1.2526	9.9452 9.9255	0.9002 1.0453 1.2187 1.3917	84 83 82	74
0 <u>‡</u>	9	5.9351 0.8 5.9261 0.9	9386 9386	6.9242 6.9138 6.8937	1.0271	7.9184 7.9015	1.1788 1.2515 1.3892		1:3206 1:4079 1:5628	9.8918	1.4673	81 80	73
1	11 12 13 14	5.8898 1.1 5.8847 1.1 5.8689 1.2 5.8462 1.3	1449 1705 2475 3497 1515	6.8714 6.8655 6.8470 6.8206 6.7921	1.3357	7.8785 7.8530 7.8465 7.8252 7.7950 7.7624	1.5265 1.5607 1.6633 1.7996 1.9354	8.8346 8.8271 8.8033 8.7693 8.7327	1.7173 1.7558 1.8712 2.0246 2.1773	9.8163 9.8079	1.7365 1.9081 1.9509 2.0791 2.2495 2.4192	79 78 77 76	7
11/2	15 16	5.8202 1.4 5.7956 1.5	579 529 538	6.7902 6.7615 6.7288	1.7000 1.9117 1.9295	7.7602 7.7274 7.6901	1.9438 2.0706 2.2051	8.7303 8.6933 8.6513	2.1868 2.3294 2.4807	9.7003 9.6593 9.6120	2.4298 2.5882 2.7562	75 74	64
13	17 18	5.7416 1.7 5.7378 1.7 5.7063 1.8	1417 1542 1541	6.6986 6.6941 6.6574	2.0320 2.0466 2.1631	7.6555 7.6504 7.6085	2.3223 2.3390 2.4721	8.6125 8.6067 8.5595	2.6126 2.6313 2.7812	9.5106	9.9029 2.9237 3.0902	73 72	63
12	19 20 21	5.6493 2.0 5.6392 2.0	1534 1213 1521 1502	6.6186 6.5908 6.5778 6.5351	2.2790 2.3582 2.3941 2.5086	7.5642 7.5324 7.5175 7.4686	2.6045 2.6951 2.7362 2.8669	8.5097 8.4739 8.4572 8.4022	2.9301 3.0520 3.0782 3.2253	9.4552 9.4154 9.3969 9.3358	3.2557 3.3689 3.4202 3.5837	71 70 69	61
2	22 23	5.5631 2.2 5.5433 2.2	2476 2961 3444	6.4903 6.4672 6.4435	2.6222 2.6783 2.7351	7.4175	2.9969 3.0615 3.1258	8.3447 8.3149 8.2845	3.3715	9.2718 9.2388 9.2050	3.7461	68 67	6
21	24 25 26 27	5.4813 2.4 5.4376 2.5 5.4939 2.5 5.3928 2.6	1404 1357 1653 1302	6.3948 6.3442 6.3279 6.2916 6.2370	2.8472 2.9583 2.9929 3.0686	7.3084 7.2505 7.2319 7.1904	3.2539 3.3809 3.4204	8.2219 8.1568 8.1359 8.0891 8.0191	3.6606 3.8036 6.8400 3.9453 4.0859	9.1355 9.0631	4.0674 4.2262 4.2756	66 65 64 63	54
	28	5.2977 2.8 5.2915 2.8	7239 3168 3284	6.1806 6.1734	3.1779 3.2863 3.2998	7.0636 7.0554	3.7558 3.7712	7.9465 7.9373	4.2252 4.2426	8.8295 8.8192	4.6947 4.7140	62	5 <u>1</u>
24	30 31	5.1962 3.0 5.1464 3.0		6.1223 6.0622 6.0041 6.0002	3.5000 3.5987			7.8716 7.7942 7.7196 7.7145	4.3633 4.5000 4.6269 4.6353		4.8481 5.0000 5.1410 5.1504	61 60 59	51
3	32 33 34	5.0883 3.1 5.0320 3.2 4.9888 3.3	1795 2678 1334 1552	5.9363 5.8707 5.8993	3.7094 3.8125 3.8890 3.9144	6.7844 6.7094 6.6518 6.6323	4.2394 4.3571 4.4446	7.6324 7.5480 7.4882 7.4613	4.7093 4.9018 5.0001 5.0327	8.4805 8.3867 9.3147 8.2904	5.2992 5.4464 5.5557 5.5919	58 57 56	5
31	35 36	4.8541 3.5	415 9267	5.7341 5.6631	4.0150	6.5532 6.4721 6.4257	4.7023	7.3724 7.2812 7.2289	5.1622 5.2901	8.1915 8.0902 8.0321	5.7358 5.8779 5.9570	55 54	12
3½ 3½	37 38 39	4.7918 3.6 4.7281 3.6 4.6629 3.7	5742 5109 5940 7759	5.6225 5.5904 5.5161 5.4400 5.4111	4.1699 4.2127 4.3096 4.4052 4.4408	6.3891 6.3041 6.2172 6.1841	4.8145 4.9253 5.0346 5.0751	7.1877 7.0921 6.9943 6.9571	5.3613 5.4163 5.5409 5.6639 5.7095	7.9864 7.8801 7.7715 7.7301	6.0182 6.1566	53 52 51	44
	40	4.5963 3.8 4.5283 3.9	3567 363	5.3623 5.2830	4.4995 4.5924	$\frac{6.1284}{6.0377}$	5.1423 5.2485 5.3530	6.8944	5.7851 5.9045	7.6604 7.5471 7.4314	6.4279	50 49	-
32	42 43 44	4.4457 4.0 4.3881 4.0 4.3160 4.1	0148 0994 0920 1680	5.2020 5.1867 5.1195 5.0354	4.6839 4.7009 4.7740 4.8626	5.7547	5. <b>3725</b> 5.4560 5.5573	6.6883 6.6686 6.5822 6.4741	6.0222 6.0440 6.1380 6.2519	7.4095 7.3135 7.1934	6.6913 6.7156 6.8200 6.9466	48 47 46	41
Pts.	45 D.		426	4.9497 Dep.	4.9497 Lat.	5.6509 Dep.	5.6569 Lat.	6.3640 Dep.	6.3640 Lat.	7.0711 Dep.	7.0711 Lat.	45 D.	4 Pts.
Coun		DISTANCE			NCE 7.	<del></del>	NCE 8.	DISTA	nce 9.	<u>-</u> -	CE 10.	_	RSE.

′	00	10	20	80	40	5°	6°	7°	80	9°	10°	110	12°	180	14	15°	1
0	0	60 61	120 121	180 181	240 241	300 301	361 362	421 422	482 483	542 543	603 604	664 665	725 726	787 788	848 850	910 911	0
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20 21	20	80 81	140 141	200 201	260 261	320 321	381 382	441 442	502 503	562 564	623 624	684 685	746	807	869 870	931 932	20 21
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40 41	40 41	100 101	160 161	220 221	280 281	341 342	401 402	461 462	522 523	583 584	644	705 706	766 767	828 829	890 891	952 953	40 41
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56 57	56 57	116 117	176 177	237	296 297	357 358	417 418	478 479	538 539	<i>5</i> 99	660 661	722	783 784	844 845	906 907	969 970	56 57
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3 4	976 977	1038 1039	1101 1102	1165 1166	1229	1293	1358	1423	1488	1554	1621	1688	1756	1824	1893	4
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9 10	982 983	1045 1046	1108 1109	1171 1172	1236	1300	1364	1430	1495	1561	1628	1695	1762	1831	1900	ю
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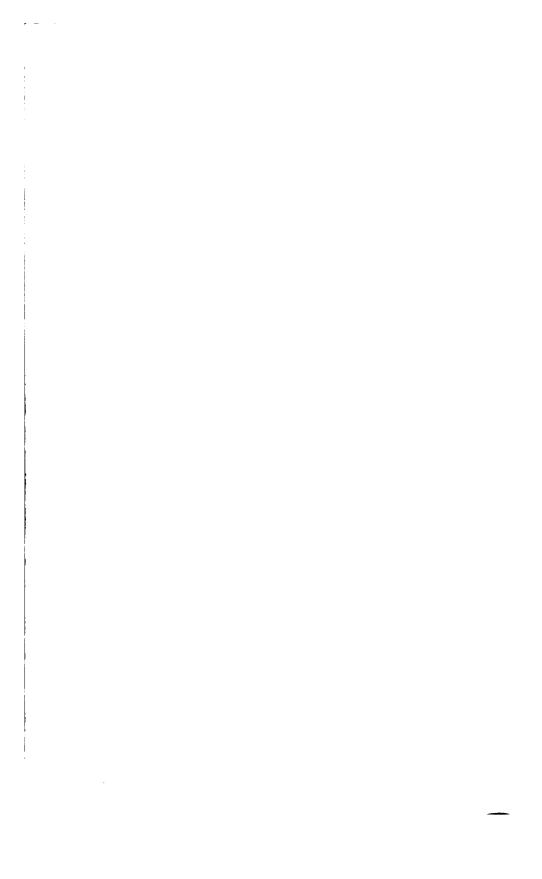
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11	3131	3219	3308	3399	3492	3586	3683	3782	3883	3987	4094	4203	4315	4431	4549	11
12	3133	3220	3309	3400	3493	3588	3685	3784	3885	3989	4095	4205	4317	4433	4551	12
13 14	3134 3136	3222 3223	3311 3312	3402 3403	3495 3496	3590 3591	3686 3688	3785 3787	3887 3889	3991 3992	4097 4099	4207 4208	4319 4321	4434 4436	4553 4555	13
15	3137	3225	3314		3498	3593	3690	3789	3890	3994	4101	4210	4323	4438	4557	15
16	3139	3226	3316		3499	3594	3691	3790	3892	3996	4103	4212	4325	4440	4559	16
17	31	3228	3317	3408	3501	3596	3693	3792	3894	3998	4104	4214	4327	4442	4562	17
18 19	3143 3143	3229	3319 3320	3410 3411	3503 3504	3598 3599	3695	3794 3795	3895 3897	3999	4106 4108	4216 4218	4328 4330	4444 4446	4564 4566	18
20	3144	3231 3332	3322	3413	3506	3601	3696 3698	3797	3899	4001 4003	4110		4332	4448	4568	19 20
21	3146	3234	3323	3414	3507	3602	3699	3799	3901	4005	4112	4221	4334	4450	4570	21
22 23	3147 3149	3235	3325	3416	3509 3510	3604	3701	3800	3902	4006	4113	4223 4225	4336 4338	4452	4572	22 23
_		3237	3326	3417		3606	3703	3802	3904	4008	4115			4454	4574	_
24 25	3150 3152	3238 3240	3328 3329	3419 3420	3512 3514	3607 3609	3704	3804 3806	3906 3907	4010   4012	4117 4119	4227 4229	4340 4342	4456 4458	4576 4578	24 25
26	3153	3241	3331	3422	3515	3610	3706 3708	3807	3909	4012	4121	4231	4344	4460	4580	26
27	3155	3242	3332	3423	3517	3612	3709	3809	3911	4015	4122	4232	4346	4462	4582	27
28	3156	3244	3334	3425	3518	3614	3711	3811	3913	4017	4124	4234 4236	4347	4464	4584	28
29	3157	3245	3335	3427	3520	3615	3713	3812	3914	4019	4126	-	4349	4466	4586	29
30 31	3159 3160	3247 3248	3337 3338	3428 3430	3521 3523	3617	3714	3814	3916	4021 4022	4128 4130	4238 4240	4351 4353	4468 4470	4588 4590	30 31
32	3162	3250	3340	3431	3525	3618 3620	3716 3717	3816 3817	3918 3919	4022	4132	4242	4355	4472	4592	32
33	3163	3251	3341	3433	3526	3622	3719	3819	3921	4026	4133	4244	4357	4474	4594	33
34 35	3165 3166	3253 3254	3343 3344	3434 3436	3528 3529	3623 3625	3721 3722	3821 3822	3923 3925	4028 4029	4135 4137	4246 4247	4359 4361	4476 4478	4596 4598	34 35
_																I—
36 37	3168 3169	3256 3257	3346 3347	3437 3439	3531 3532	3626 3628	3724 3726	3824 3826	3926 3928	4031 4033	4139 4141	4249 4251	4363 4365	4480 4482	4600 4602	36 37
38	3171	3259	3349	3440	3534	3630	3727	3827	3930	4035	4142	4253	4367	4484	4604	38
39	3172	3260	3350	3442	3536	3631	3729	3829	3932	4037	4144	4255	4369	4486	4606	39
40 41	3173 3175	3262 3263	3352 3353	3443 3445	3537 3539	3633 3634	3731 3732	3831 3832	3933 3935	4038 4040	4146 4148	4257 4259	4370 4372	4488 4490	4608 4610	40 41
42	3176	3265	3355	3447	3540					4042	4150	4260	4374	4492	4612	42
43	3178	3266	3356	3448	3542	3636 3638	3734 3736	3834 3836	3937 3938	4042	4152	4262	4376	4494	4614	43
14	3179	3268	3358	3450	3543	3639	3737	<b>3</b> 838	3940	4045	4153	4264	4378	4495	4616	44
45 46	3181 3182	3269 3271	3359 3361	3451 3453	3545 3547	3641	3739	3839 3841	3942	4047	4155 4157	4266 4268	4380 4382	4497 4499	4618 4620	45 46
47	3184	3272	3362	3454	3548	3643 3644	3741 3742	3843	3944 3945	4049 4051	4159	4270	4384	4501	4623	47
48	3185	3274	3364	3456	3550	3646	3744	3844	3947	4052	4161	4272	4386	4503	4625	48
49	3187	3275	3365	3457	3551	3647	3746	3846	3949	4054	4162	4274	4388	4505	4627	49
50	3188	3277	3367	3459	3553	3649	3747	3843	3951	4056	4164	4275	4390	4507	4629	50
51 52	3190 3191	3278 3280	3368 3370	3460 3462	3555 3556	3651 3652	3749 3750	3849 3851	3952 3954	4058 4060	4166 4168	4277 4279	4392 4394	4509 4511	4631 4633	51 52
53	3192	3281	3371	3464	3558	3654	3752	<b>3</b> 853	3956	4061	4170	4281	4396	4513	4635	53
54	3194	3283	3373	3465	3559	3655	3754	3854	3958	4063	4172	4283	4398	4515	4637	54
55	3195	3284	3374	3467	3561	3657	3755	3856	3959	4065	4173	4285	4399	4517	4639	55
56 57	3197	3286	3376	3468	3562	3659	3757	3858	3961	4067	4175	4287	4401	4519	4641	56
58	3198 3200	3287 3289	3378 3379	3470 3471	3564 3566	3660 3662	3759 3760	3860 3861	3963 3964	4069 4070	4177	4289 4291	4403 4405	4521 4523	4643 4645	57 58
59	3201	3290	3381	3473	3567	3664	3762	3863	3966	4072	4181	4292	4407	4525	4647	59
171	46°	470	48°	49°	50°	51°	590	53°	54°	55°	56°	570	58°	59°	60°	7
<b>.</b>										الت	1				- '	

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'	61°	<b>62°</b>	<b>63</b> °	64°	65°	, 66°	67°	68°	69°	70°	71°	72°	78°	740	75°	1
0	4649	4775	4905	5039	5179	5324	5474	5631	5795	5966	6146	6335	6534	6746	6970	0
2	4651 4653	4777 4779	4907 4909	5042 5044	5181 5184	5326 5328	5477 5479	5633 5636	5797 5800	5969 5972	6149 6152	6338 6341	6538 6541	6749 6753	6974 6978	1 2
3	4655	4781	4912	5046	5186	5331	5482	5639	5803	5975	6155	6345	6545	6757	6982	3
4	4657	4784	4914	5049	5188	<b>53</b> 33	5484	5642	5806	5978	6158	6348	6548	6760	6986	4
5	4660	4786	4916	5051	5191	5336	5487	5644	5809	5981	6161	6351	6552	6764	6990	_5
6	4662	4788	4918	5053	5193	<b>533</b> 8	5489	5647	5811	5984	6164	6354	6555	6768	6994	6
8	4664 4666	4790 4792	4920 4923	5055 5058	5195 5198	5341 5343	5492 5495	5650 5652	5814 5817	5986 5989	6167 6170	6358 6361	6558 6562	6771 6775	6997 7001	8
9	4668	4794	4925	5060	5200	5346	5497	5655	5820	5992	6173	6364	6565	6779	7005	9
10	4670	4796	4927	5062	5203	5348	5500	5658	5823	5995	6177	6367	6569	6782	7009	10
11	4672	4798	4929	5065	5205	5351	5502	5660	5825	<b>5</b> 998	6180	6371	6572	6786	7013	11
12	4674	4801	4931	5067	5207	5353	5505	5663 5666	5828	6001	6183	6374	6576	6790	7017 7021	12
13 14	4676 4678	4803 4805	4934 4936	5069 5071	5210 5212	5356 5358	5507 5510	5666 5668	5831 5834	6004	6186 6189	6380	6579 6583	6793 6797	7025	14
15	4680	4807	4938	5074	5214	5361	5513	5671	5837	6010	6192	6384	6586	6801	<b>702</b> 9	15
16	4682	4809	4940	5076	5217	5363	5515	5674	5839	6013	6195	6387 6390	6590	6804	7033 037	16 17
17	4684	4811	4943	5078	<i>5</i> 219	5366	5518	5676	5842	6016	6198		6593	6808		I —
18	4687 4689	4814 4816	4945 4947	5081 5083	5222 5224	5368 5371	5520 5523	5679 5682	5845 5848	6019 6022	6201 6205	6394 6397	6597 6600	6812	7041 7045	18 19
19 20	4691	4818	4949	5085	5226	5373	5526	5685	5851	6025	6208	6400	6603	6915	7048	20
21	4693	4820	4951	5088	5229	5376	5528	5687	5854	6028	6211	6403	6607	6823	7052	21
22 23	4695 4697	4822 4824	4954 4956	5090 5092	5231 5234	5378 5380	5531 5533	5690 5693	5856 5859	6031 6034	6214 6217	6407 6410	6610 6614	6826 6830	7056 7060	22 23
_								5695			6220	6413		6834	7064	24
24 25	4699 4701	4826 4829	4958 4960	5095 5097	5236 5238	5383 5385	5536 5539	5698	5862 5865	6037 6040	6223	6417	6617 6621	6838	7068	25
26	4703	4831	4963	5099	5241	5388	5541	5701	5868	6043	6226	6420	6624	6841	7072	96
27	4705	4833	4965	5102	5243 5246	5390	5514	5704 5706	5871 5874	6046	6230 6233	6423 6427	6623	6845 6849	7076 7080	27 28
28 29	4707 4710	4835 4837	4967 4969	5104 5106	5246 5248	5393 5395	5546 5549	5709	5876	6049 6052	6236	6430	6631 6635	6853	7084	29
30	4712	4839	4972	5108	5250	5398	5552	5712	5879	6055	6239	6433	6639	6856	7088	30
31	4714	4842	4974	5111	5253	5401	5554	5715	5882	6058	6242	6437	6642	6860	7092	31
32	4716	4844	4976	5113	5255	5403	5557	5717	5885	6061	6245	6440	6646	6864	7096	32
33 34	4718 4720	4846 4848	4978 4981	5115 5118	5258 5260	5406 5408	5559 5562	5720 5723	5888 5891	6064 6067	6249 6252	6443 6447	6649 6653	6868 6871	7100 7104	33 34
35	4722	4850	4983	5120	5263	5411	5565	5725	5894	6070	6255	6450	6656	6875	7108	35
36	4724	4852	4985	5122	5265	5413	5567	5728	5896	6073	6258	6453	6660	6879	7112	36
37	4726	4855	4987	5125	5267	5416	557C	5731	5899	6076	6261	6457	6663	6883	7116	37
																38 39
40	38 4728 4857 4990 5127 8270 5418 5573 5734 5902 6079 6264 6460 6667 6886 7120 39 4731 4859 4992 5129 5272 5421 5575 5736 5905 6082 6268 6463 6670 6890 7124														40	
41	4735	4863	4996	5134	5277	5426	5580	5742	5911	6088	6274	6470	6677	6898	7132	44
42	4737	4865	4999	5136	5280	5428	5583	5745	5914	6091	6277	6473	6681	6901	7136	42
43	4739	4868	5001	5139	5282	5431	5586	5747	5917	6094	6280	6477	6685	6905	7140	43
44	4741	4870 4872	5003 5005	5141 5143	5284 5287	5433 5436	5588 5591	5750 5753	5919 5922	6097 6100	6283 6287	6480 6483	6688 6692	6909 6913	7145 7149	44
46	4745	4874	5008	5146	5289	5438	5594	<i>5</i> 756	5925	6103	6290	6487	6695	6917	7153	46
47	4747	4876	5010	5148	5292	5441	5596	5758	5928	6106	6293	6490	6699	6920	7157	47
48	4750	4879	5012	5151	5294	5443	5599	5761	5931	6109	6296	6494	6702	6924	7161	48
49	4752 4754	4881 4883	5014 5017	5153 5155	5297 5299	5446 5448	5602 5604	5764 5767	5934 5937	6112	6299 6303	6497 6500	6706 6710	6928 6932	7165 7169	49 50
50 51	4756	4885	5019	5158	5301	5451	5607	5770	5940	6118	6306	6504	6713	6936	7173	51
52	4758	4887	5021	5160	5304	5454	5610	5772	5943	6121	6309	6507	6717	6940	7177	52
53	4760	4890	5023	5162	5306	5456	5612	5775	5946	6124	6312	6511	6790	6943	7181	53
54	4762	4892 4894	5026	5165	5309 5311	5459 5461	5615 5617	5778 5781	5948 5951	6127 6130	6315 6319	6514 6517	6724 6728	6947 6951	7185	54
55 55	4764 4766	4896	5028 5030	5167 5169	5314	5464	5620	5783	5954	6133	6322	6521	6731	6955	7189 7194	56 56
57	4769	4898	5033	5172	5316	5466	5623	5786	5957	6136	6325	6524	6735	6959	7198	57
58	56   4771   4901   5035   5174   5319   5469   5625   5789   5960   6140   6328   6528   6738   6963   7202   56															
==	<u>59   4773   4903   5037   5176   5321   5471   5628   5792   5963   6143   6332   6531   6742   6966   7206   59   </u>															
′	63°	<b>62°</b>	<b>63</b> °	64°	65°	66°	67°	68°	69°	70°	71°	7 <b>3</b> °	<b>78</b> °	<b>74°</b>	75°	,
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<u>'</u>	76°	77°	78°	79°	80°	810	82°	830	84°	85°	86°	87°	88°	89°	_
0	7210	7467	7745	8046	8375	8739	9145	9606	10137	10765	11533	12522	1391%	16300	0
1	7214	7472	7749	8051	8381	8745	9153	9614	10147	10776	11547	12541	13945	16357	1
2	7218	7476	7754	8056	8387	8752	9160	9622	10156	10788	11561	12561	13974	16416	2
3	7222	7481	7759	8061	8393	8758	9167	9631	10166	10799	11576	12580	14004	16476	3
4	7227	7485	7764	8067	8398	8765	9174	9639	10175	10811	11590	12599	14033	16537	4
5	7231	7490	7769	8072	8404	8771	9182	9647	10185	10823	11605	12619	14063	16599	5
6	7235	7494	7774	8077	8410	8778	9189	9655	10195	10834	11620	12639	14093	16662	6
7	7239	7498	7778	8083	8416	8784	9196	9664	10205	10846	11634	12659	14123	16726	7
8	7243	7503	7783	8088	8422	8791	9203	9672	10214	10858	11649	1267 <b>9</b>	14154	16792	8
9	7247	7507	7788	8093	8427	8797	9211	9680	10224	10870	11664	12699	14185	16858	9
10	7252	7512	7793	8099	8433	8804	9218	9689	10234	10881	11679	12719	14216	16926	10
11	7256	7516	7798	8104	8439	8810	9225	9697	10244	10893	11694	12739	14247	16996	11
12	7260	7521	7803	8109	8445	8817	9233	9706	10254	10905	11709	12759	14279	17067	12
13	7264	7525	7808	8115	8451	8823	9240	9714	10264	10917	11724	12780	14311	17140	13
14	7268	7530	7813	8120	8457	8830	9248	9723	10274	10929	11739	12801	14343	17213	14
15	7273	7535	7817	8125	8463	8836	9255	9731	1028	10941	11755	12821	14376	17289	15
16	7277	7539	7822	8131	8469	8843	9262	9740	10294	10953	11770	12842	14403	17366	16
17	7281	7544	7827	8136	8474	8849	9270	9748	10304	10965	11785	12863	14442	1744	17
18	7285	7548	7832	8141	8480	8856	9277	9757	10314	10978	11801	12883	14475	17526	18
19	7289	7553	7837	8147	8486	8863	9285	9765	10324	10990	11816	12906	14509	17609	19
20	7294	7557	7842	8152	8492	8869	9292	9774	10334	11002	11832	12927	14543	1769	20
21	7298	7562	7847	8158	8498	8876	9300	9783	10344	11014	11848	12949	14578	17781	21
22	7302	7566	7852	8163	8504	8883	9307	9791	10354	11027	11863	12973	14613	17870	22
23	7306	7571	7857	8168	8510	8889	9315	9800	10364	11039	11879	12992	14648	17962	23
24	7311	7576	7862	8174	8516	8896	9322	9809°	10374	11052	11895	13014	14684	18056	24
25	7315	7580	7867	8179	8522	8903	9330	9817	10385	11064	11911	13037	14720	18153	25
26	7319	7585	7872	8185	8528	8909	9337	9826	10395	11077	11927	13059	14756	18252	26
27	7323	7589	7877	8190	8534	8916	9345	9835	10405	11089	11943	13081	14793	18355	27
28	7328	7594	7882	8196	8540	8923	9353	9844	10416	11102	11959	13104	14830	18461	28
29	7332	7599	7887	8201	8546	8930	9360	9852	10426	11115	11976	13126	14868	18570	29
30	7336	7603	7892	8207	8552	8936	9368	9861	10437	11127	11992	13149	14906	18683	30
31	7341	7608	7897	8212	8558	8943	9376	9870	10447	11140	12008	13172	14944	18799	31
32	7345	7612	7902	8218	8565	8950	9383	9879	10457	11153	12025	13195	14983	18920	32
33	7349	7617	7907	8223	8571	8957	9391	9888	10468	11166	12041	13219	15022	19045	33
34	7353	7622	7912	8229	8577	8963	9399	9897	10478	11179	12058	13242	15062	19174	34
35	7358	7626	7917	8234	8583	8970	9407	9906	10489	11192	12075	13266	15102	19309	35
36	7362	7631	7922	8240	8589	8977	9414	9915	10500	11205	12092	13290	15143	19449	36
37	7366	7636	7927	8245	8595	8984	9422	9924	10510	11218	12109	13314	15184	19596	37
38	7371	7640	7932	8251	8601	8991	9430	9933	10521	11231	12125	13338	15226	19749	38
39	7375	7645	7937	8256	8607	8998	9438	9942	10532	11244	12143	13362	15268	19908	39
40	7379	7650	7942	8262	8614	9005	9445	9951	1054	11257	12160	1338 <b>%</b>	15311	20076	40
41	7384	7654	7948	8267	8620	9012	9453	9960	10553	11270	12177	13411	15354	20253	41
42	7388	7659	7953	8273	8626	9018	9461	9969	10564	11284	12194	13436	15398	20439	42
43	7392	7664	7958	8279	8632	9025	9469	9978	10575	11297	12212	13461	15442	20635	43
44	7397	7668	7963	8284	8638	9032	9477	9987	10586	11310	12229	13486	15487	20843	44
45	7401	7673	7968	8290	8644	9039	9485	9996	10597	11324	12247	13512	15533	21065	45
46	7406	7678	7973	8295	8651	9046	9493	10005	10608	1133	12264	13537	15579	21303	46
47	7410	7683	7978	8301	8657	9053	9501	10015	10619	11351	12282	13563	15625	21557	47
48	7414	7687	7983	8307	8663	9060	9509	10024	10630	11365	12300	13589	15673	21832	48
49	7419	7692	7989	8312	8669	9067	9517	10033	10641	11378	12318	13615	15721	22132	49
50	7423	7697	7994	8318	8676	9074	9525	10043	10652	11392	12336	13641	15770	22459	50
51	7427	7702	7999	8324	8682	9081	9533	10052	10663	11406	12354	13668	15819	22821	51
52	7432	7706	8004	8329	8688	9088	9541	10061	10674	11420	12373	13694	15869	23226	52
53	7436	7711	8009	8335	8695	9096	9549	10071	10685	11434	12391	13721	15920	23685	53
54	7441	7716	8014	8341	8701	9103	9557	10080	10696	11448	12409	13749	15972	24215	54
55	7445	7721	8020	8347	8707	9110	9565	10089	10708	11462	12428	13776	16025	24842	55
56	7449	7725	8025	8352	8714	9117	9573	10099	10719	11476	12445	13804	16078	25609	56
57	7454	7730	8030	8358	8720	9124	9581	10108	10730	11490	12465	13832	16132	26598	57
58	7458	7735	8035	8364	8726	9131	9589	10118	10742	11504	12484	13860	16187	27992	58
59	7463	7740	8040	8369	8733	9138	9598	10127	10753	11518	12503	13888	16243	30375	59
,	76°	770	78°	<b>79°</b>	80°	81°	82°	83°	84°	85°	86°	87°	88°	8 <b>9</b> °	,
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ASTRONOMICAL REFRACTIONS, when the Barometer is at 30.0 English Inches, and Fahrenbeit's Thermometer at 55°, or when the Barometer is at 29.5, and Fahrenbeit's Thermometer at 50°; with the SUN'S PARALLAX.

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Vertice. Zenith	ax of un in a cal Cir-	Altitude.	Zenith Distance.	Refraction for Ba- rom. 30,0, Therm. 35°.	Variation for 9-10ths of an Inch of Berom.	Variation for 90° of Fabreaheit's Therm.	Altitude.	Zenith Distance	Refraction for Ba- rom. 30.0, Therm. 55°.	Variation for 9-10ths of an Inch of Barom.	Variation for 20° of Fabrenheit's Therm.	Akkude.	Zenkh Distance.	Refraction for Barron. 30.0, Therm. 550.	Variation for 9-10ths of an Inch of Barom.	Variation for 90° of Fahrenheit's Therm.
Dis- tance.	lax.			3 8	Z 2	74		Z	Z E	20	P. P.		2	Refr 13 GB	S C	Vari
•	"	•	•	1 11	- //	1"	-	-	7 "	"	"	•	•	7 11	"	"
0 3 6 9 12 15	0.0 0.4 0.9 1.4 1.8 2.3	90 89 88 87 86 85	0 1 2 3 4 5	0 0. 0 1. 0 2. 0 3. 0 4. 0 5.	0.0 0.1 0.1 0.1 0.1	0.0 0.0 0.1 0.1 0.2 0.2	60 59 58 57 56 55	30 31 32 33 34 35	0 33.1 0 34.4 0 35.8 0 37.2 0 38.7 0 40.2	1.0 1.0 1.1 1.1 1.2 1.2	1.5 1.5 1.6 1.7 1.7	30 29 28 27 26 25	60 61 62 63 64 65	1 39.0 1 43.2 1 47.6 1 52.3 1 57.2 2 2.4	2.9 3.0 3.1 3.2 3.4 3.5	4.5 4.7 4.9 5.1 5.3 5.6
18 21 24 27 30	2.7 3.1 3.6 4.0 4.4	84 83 82 81 80	6 7 8 9 10	0 6. 0 7. 0 8. 0 9. 0 10.	1 0.2 1 0.2 2 0.3	0.2 0.3 0.3 0.4 0.4	54 53 52 51 50	36 37 38 39 40	0 41.7 0 43.3 0 44.9 0 46.5 0 48.1	1.2 1.3 1.3 1.4 1.4	1.9 2.0 2.0 2.1 2.2	24 23 22 21 20	66 67 68 69 70	2 8.0 2 14.2 2 20.9 2 28.3 2 36.3	3.7 4.0 4.2 4.4 4.7	5.9 6.3 6.6 6.9 7.3
33 36 39 42 45	4.8 5.2 5.5 5.9 6.2	79 78 77 76 75	11 12 13 14 15	0 11. 0 12. 0 13. 0 14. 0 15.	3 0.4 3 0.4 4 0.4	0.5 0.5 0.6 0.6 0.7	49 48 47 46 45	41 42 43 44 45	0 49.8 0 51.6 0 53.4 0 55.3 0 57.3	1.5 1.6 1.6 1.7	2.2 2.3 2.4 2.5 2.6	19 18 17 16 15	71 72 73 74 75	2 45.1 2 54.7 3 5.5 3 17.5 3 31.0	5.0 5.3 5.6 5.9 6.3	7.7 8.2 8.7 9.3 9.9
48 51 54 57 60	6.5 6.8 7.1 7.4 7.6	74 73 72 71 70	16 17 18 19 20	0 16. 0 17. 0 18. 0 19. 0 20.	6   0.5 7   0.6 8   0.6	0.7 0.8 0.8 0.9 0.9	44 43 42 41 40	46 47 48 49 50	0 59.3 1 1.4 1 3.6 1 5.9 1 8.2	1.8 1.9 2.0 2.0 2.1	2.7 2.8 2.9 3.0 3.1	14 13 12 11 10	76 77 78 79 80	3 46.4 4 3.8 4 24.0 4 46.6 5 15.6	6.8 7.3 7.9 8.6 9.4	10.6 11.5 12.5 13.7 14.9
63 66 69 72 75	7.8 8.0 8.2 8.4 8.5	69 68 67 66 65	21 22 23 24 25	0 22. 0 23. 0 24. 0 25. 0 26.	2   0.7 3   0.7 5   0.8	1.0 1.0 1.1 1.2 1.2	39 38 37 36 35	51 52 53 54 55	1 10.6 1 13.2 1 15.9 1 18.7 1 21.6	2.2 2.3 2.3 2.4 2.5	3.2 3.4 3.5 3.7 3.8	9 8 7 6 5	81 82 83 84 85	5 49.0 6 29.7 7 20.3 8 24.7 9 48.8	10.4 11.6 13.1 15.0 17.5	16.5 18.5 21.3 24.9 29.6
78 81 84 87 90	8.6 8.7 8.7 8.8 8.8	64 63 62 61 60	26 27 28 29 30	0 28. 0 29. 0 30. 0 31. 0 33.	2   0.9 5   0.9 3   1.0	1.3 1.3 1.4 1.4 1.5	34 33 32 31 30	56 57 58 59 60	1 24.7 1 28.0 1 31.5 1 35.2 1 39.0	2.5 2.6 2.7 2.8 2.9	3.9 4.1 4.2 4.3 4.5	3 2 1 0	86 87 88 89 90	11 41.8 14 18.4 18 1.3 23 21.4 30 50.8	55.0	129.2

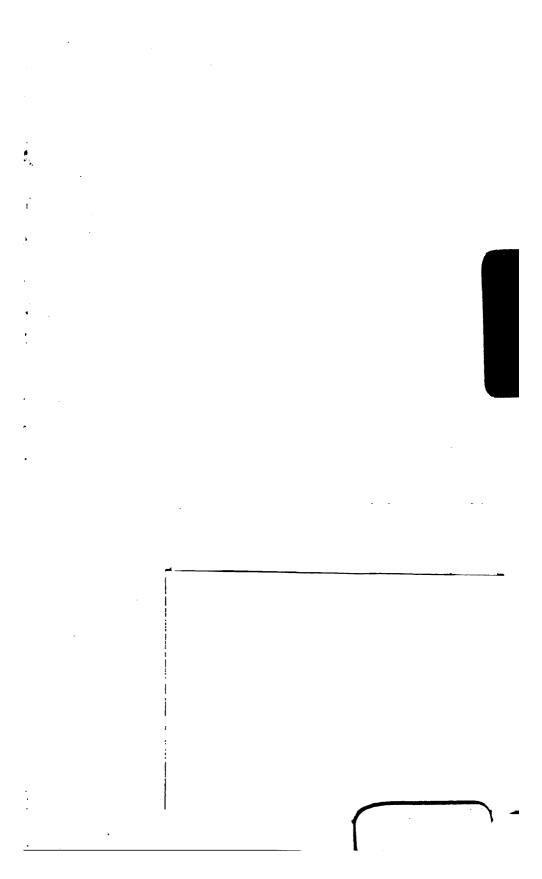




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